

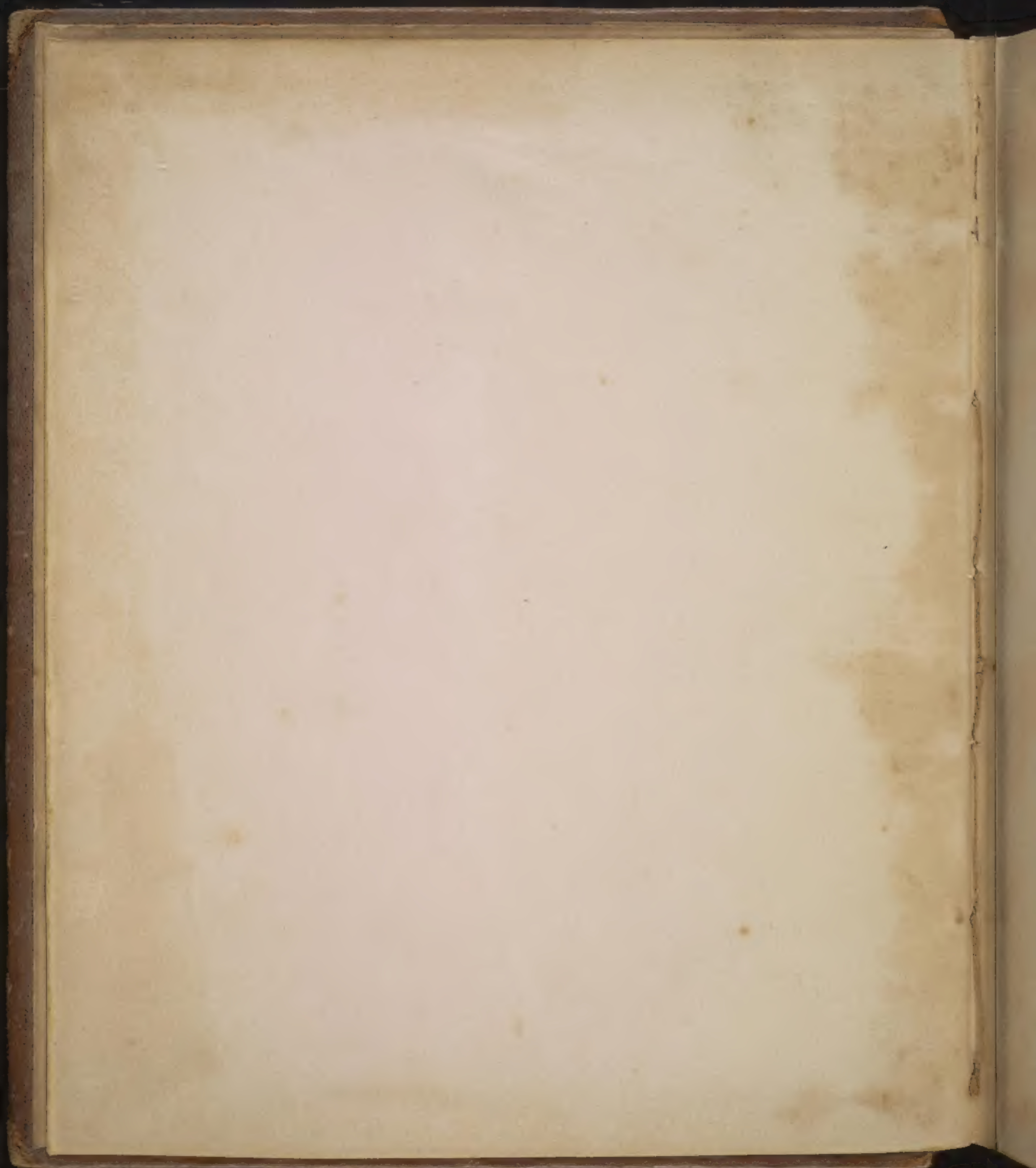
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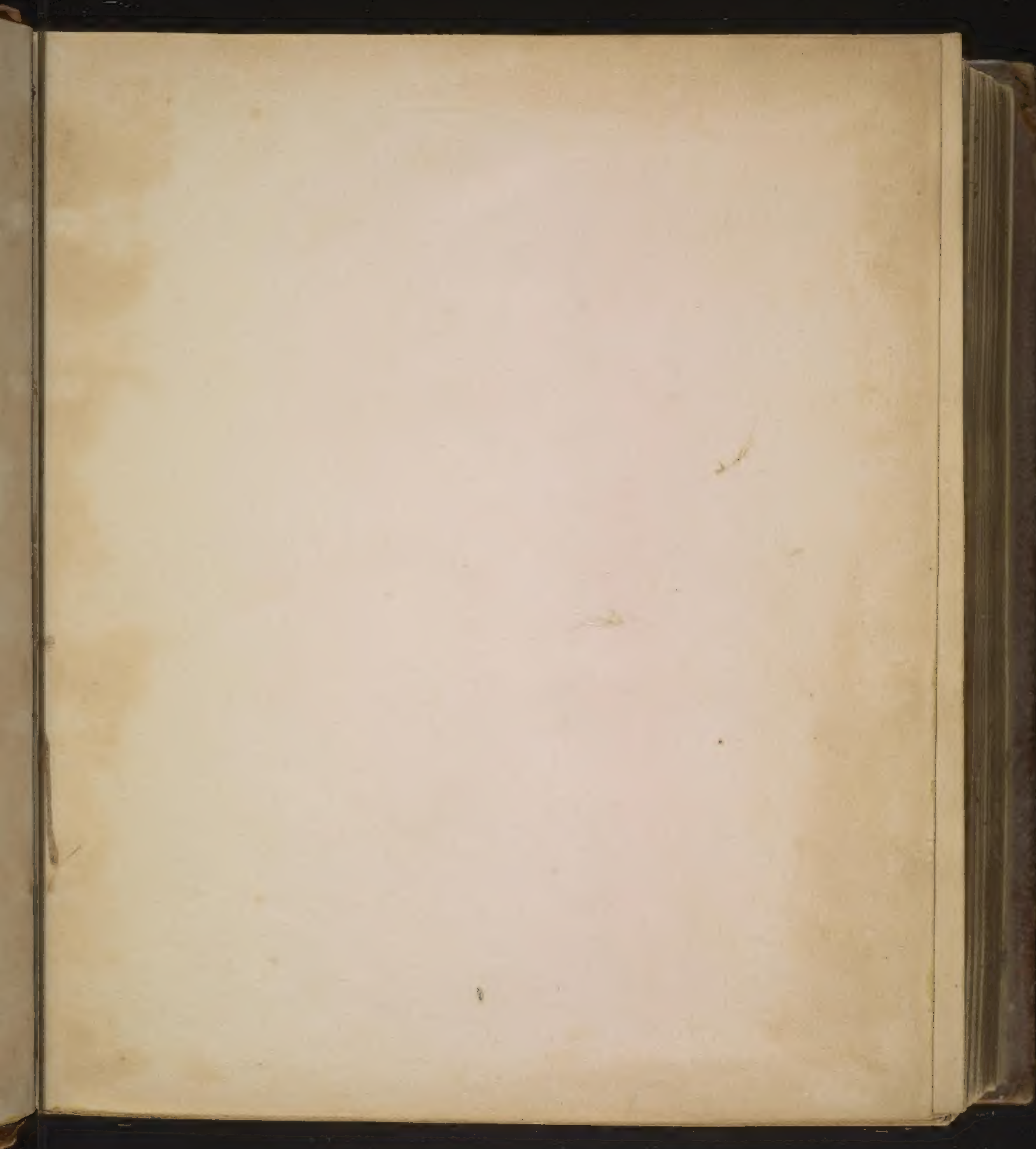
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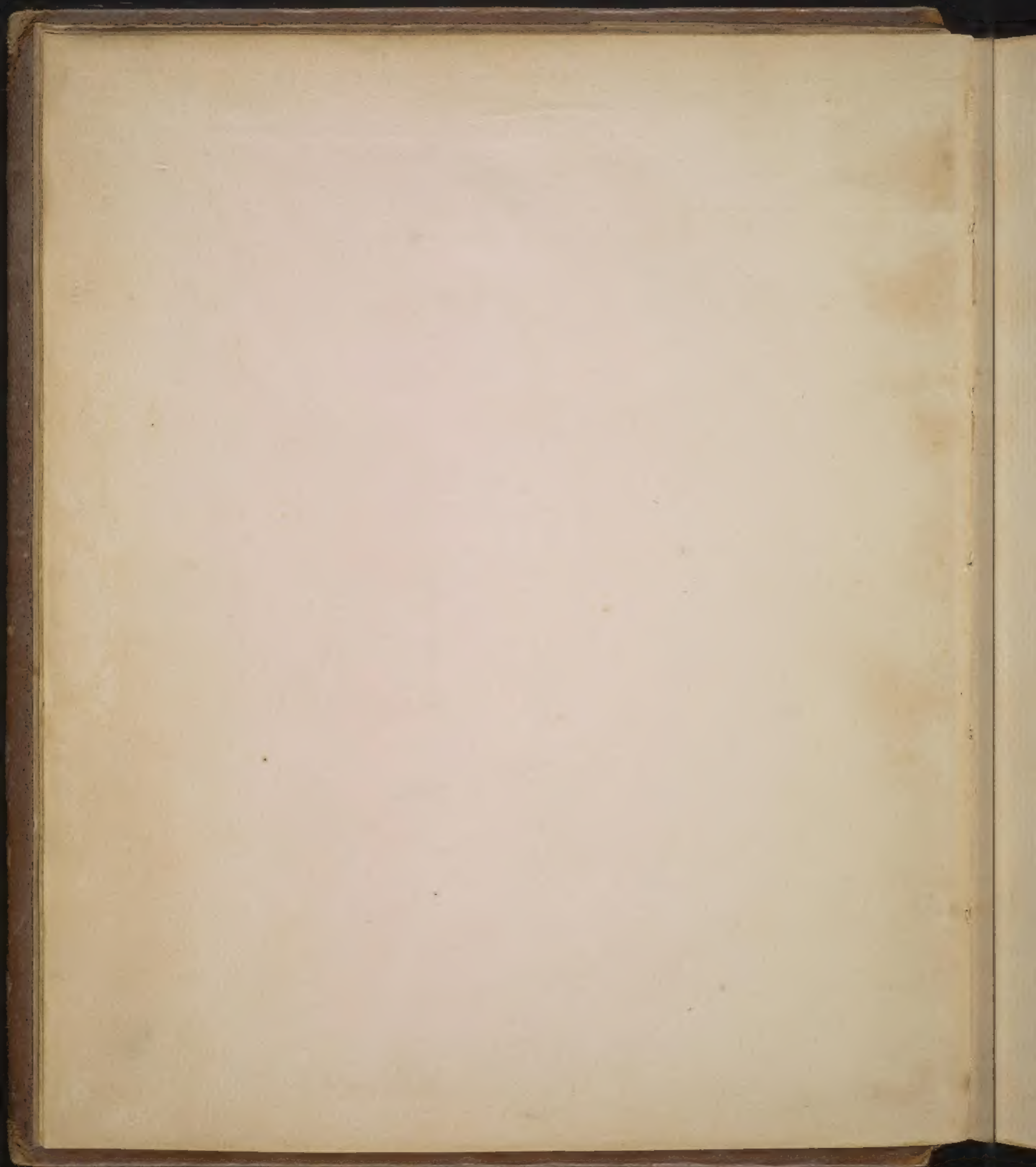
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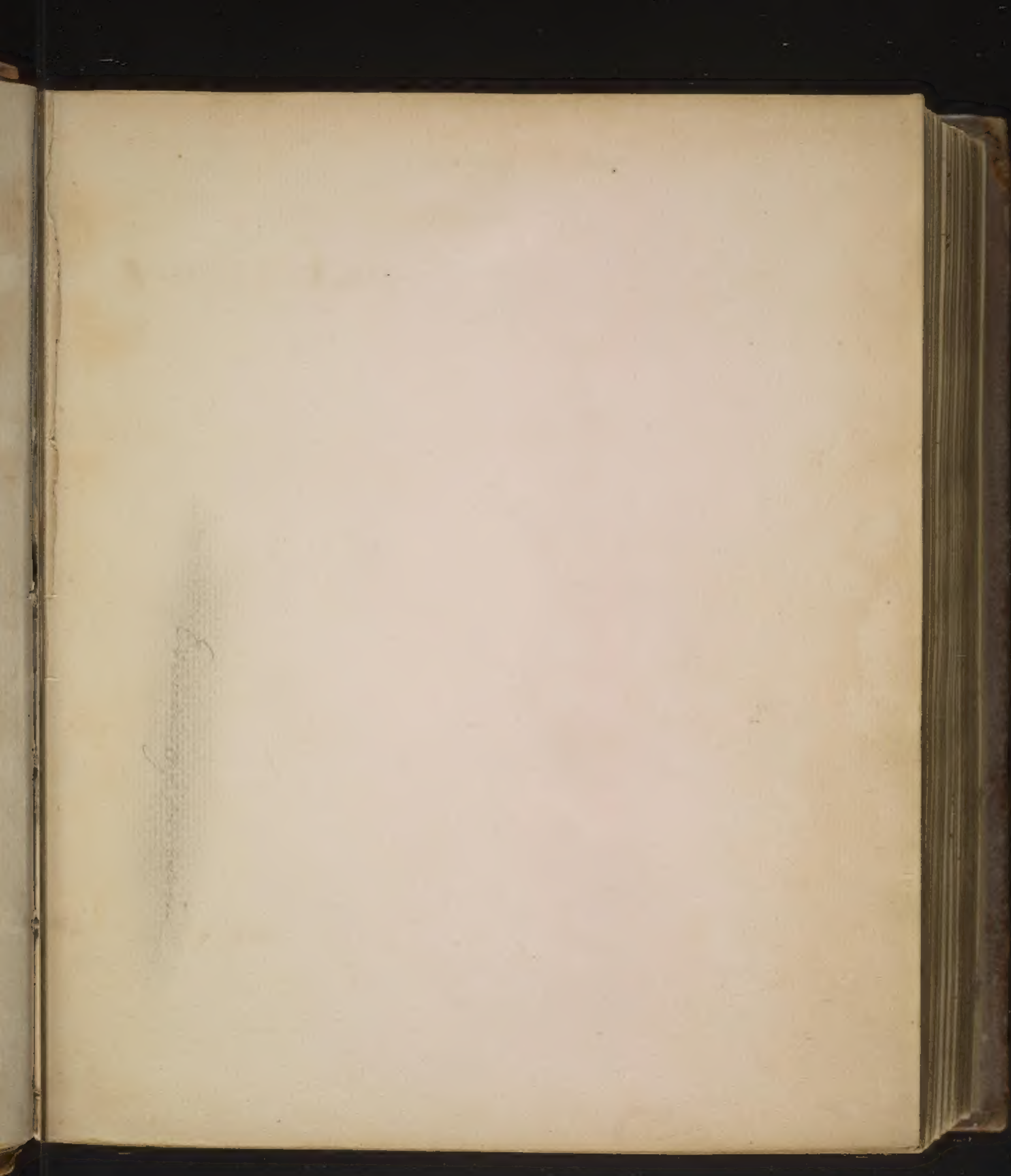
H. H. Kreider M. D.
Philadelphia

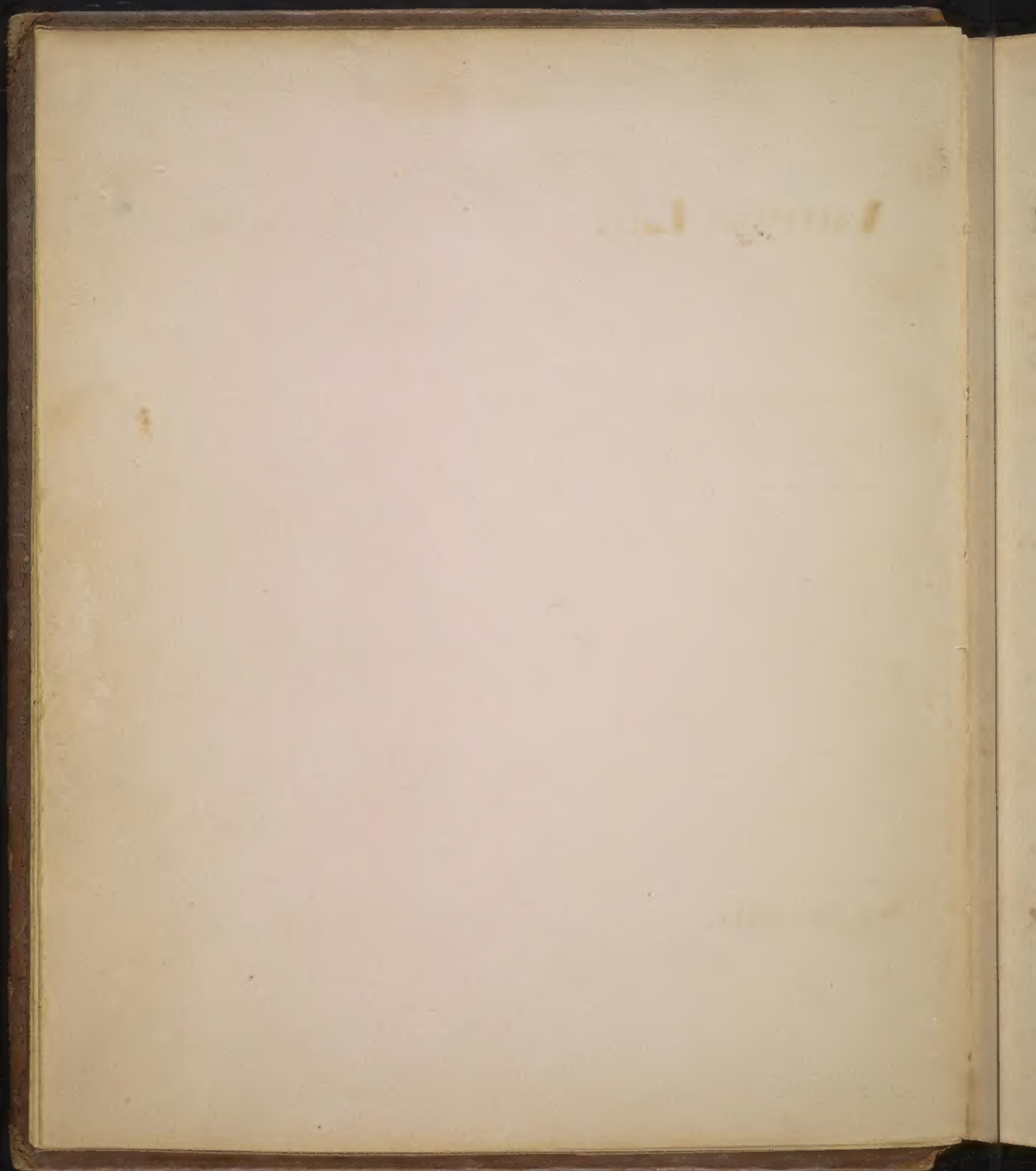
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Annual Life

St. John's

Handwritten text in a cursive script, likely a letter or a page from a manuscript. The text is written in dark ink on aged, slightly stained paper. The handwriting is fluid and characteristic of the 17th or 18th century. The text is arranged in several paragraphs, with some lines indented. The overall tone of the writing is formal but personal.

My dear Sir

Yours truly

Lecture 1st

Animal Life. Life consists in the power of resisting heat cold & putrefaction. Life does not consist in sensation motion or thought this is proven by freezing a catfish & leaving the fish in that state for some time. sensation or thought did this animal possess.

The fresh egg resists congelation $7\frac{1}{2}$ minutes longer than any other. an egg that is a second time frozen does not resist congelation $7\frac{1}{2}$ minutes longer than the fresh one. an egg at 15° becomes fluid at 29° .

The blood possesses life which is Dr. Hunter's theory. which is correct as may be proven by several experiments. From the blood solids are produced. the blood after being once frozen congeals sooner a second time. because the vital principle remains debilitated. Life may be preserved without any peculiar power. (I employ the term power, instead of capacity) because it has the power of self preservation.

SYMPATHY. I divide Sympathy into. Universal continuous & contiguous. Universal Sympathy I believe seldom if ever occurs. Continuous, as for instance the punction of a small needle the arterial system Sympathizes.

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Contiguous as for instance applying snuff to the Schneiderian membrane the lacrymal gland sympathizes. will be immediately thrown into action & discharge the offending matter.

Remote Sympathy under the Division of contiguous as pain in the shoulder from a remote effect of the liver. also a stone in one of the kidneys produces pain on both sides & also at the glans penis. Typhic fever does not result from absorption of pus, but is the consequence of sympathy. by overloading the stomach with a heavy supper, the stomach & brain sympathize by producing Incubus & other nervous affectings.

Dr. Physick had a patient who had an inflammation of the stomach as appeared on dissection. She had no apparent symptoms but pain in the foot & leg, but it was found that the stomach was inflamed & black matter was found as in yellow fever. Dr. Derosy says that 2 diseases can exist in the system at the same time. for instance the cow & small pox. but the small pox will not proceed when the system is affected with measles. Dr. Hunter says two diseases cannot exist in the system at the same time. one succeeds the other though there have been instances to the contrary. the modus operandi is by sympathy alone

Medicines occasion temporary derangements thereby creating a new action

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Lecture 2nd

Materia Medica comprehends not only those medicines which are used in diseases, but also in health as preventatives of disease.

The diseases in this country require particular attention to diet & regimen. I shall use the term *alimentaria*. I shall divide this into animal & vegetable. The vegetable is simple mild & innocuous. It is a singular fact, that certain vegetables which are agreeable to one are poisonous to another. for instance cicuta or hemlock, whereas a very small quantity would destroy man, goats can subsist on *Stramonium* without injury, which would prove detrimental to man. A question has long been agitated whether man was born to live on a vegetable or animal diet. Otman may suddenly be deprived of either without injury. Carnivorous animals may gradually be habituated to a vegetable food. Doct. Ferrius lived 14 days & gained 4 lbs on oil & flour. Vegetable food is certainly more healthy than any other & particularly in some certain diseases. A Troop of Soldiers subsisted for a number of days upon G. Arabic. Lime water & milk are sometimes given to dyspeptic patients.

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Sometimes the Patient rejects it and it is then found that the milk becomes curdled by the acid in the stomach, which is in abundance. It is much better to combine the water with an emulsion of G. Arabic. — I shall now briefly speak of bread. — Leavened & Unleavened I allow there is ^{no} difference but in some different cases, unleavened bread is better than leavened and vice versa. In dyspeptic patients prohibit fresh bread & order them stale. In China where the inhabitants subsist upon a vegetable diet, their diseases are milder & their Patients recover sooner from surgical operations, & In Calcutta the same result takes place. It is ascertained that the chyle contains much Saccharine matter, the Oil also contains nourishment as has been taught by Baiton Cullen & others.

Lecture 3.

In febrile cases you ought to allow your Patients but bread & water, as toast water unfermented bread is much harder to digest than fermented. but when it can be digested it is much better. In Scotland 9/10 of the inhabitants live upon unfermented bread & there are not here this People on earth. The sailors derive no material effect by exchanging unfermented for fermented bread, wherever fermented bread

is easy of digestion, it is healthful & more nourishing. there is nothing so hard of digestion as dumplings. The under crust of pie. Rice (Rye bread) this article resembles what is many of its properties, but contains more Saccharine matter. It would have been a happy thing for char if Rye had never been dried (I allude to its being made into ardent spirit) Rye bread is a very good diet in costiveness, being of a laxative nature. Rye mush will generally cure prolapsus ani in children. Doct^r Physick has cured many of prolapsus ani with rye mush sugar. & Barley this is generally made into barley water which is commonly used in inflammatory diseases, but if the inflammation is too acute it is certainly injurious. Rice. Is a valuable article it is not so liable to undergo an ardent fermentation. therefore we always give it where ardent fermentation is to be prohibited. It ought to be well boiled otherwise it is hard of digestion. I have cured many bowel complaints by confining my patients to Rice & milk. In Dyspepsia I think Rice is unwholesome. I know of no articles that are more nutritious than Rice in health. Gentlemen you must be cooks as well as Physicians.

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ARRA RII

Buckwheat Is not unwholesome if there is not too large a quantity of butter. It ought not to be given in dyspepsia as it will aggravate the disease.

CORN (maize) Green Corn is flatulent & hard of digestion, though Dr. Barton supposed it the most nutritious of all. The Indians roast their corn in ash. **SAGO** Is the fruit of *Lias circinalis*, is readily soluble in boiling water, forms a nutritious jelly for convalescents. The women are generally in the habit of adding 1/2 pint of wine and some cinnamon to it, which ought to be prohibited in bowel complaints, a diet of Sago is very serviceable. **TAPICCA** Is procured from a plant of S. America prepared from the roots of the plant you will find 2 hours necessary for it to dissolve you will therefore be on your guard with respect to boiling it forming a nutritious jelly for convalescents but very hard of digestion. **ARROW ROOT**, agrees with the last mentioned. It is to be boiled in as much water, as will form it into a jelly. It is the custom to boil it in water and add milk, in children. Particularly it ought not to be given as the milk becomes coagulated by the acid in the stomach. It an excellent diet for convalescents.

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Lecture 4

Fruit. APPLES. contain acid & saccha-
 rine matter. they excite the secretions &
 keep the bowels open. they are not nourish-
 ing. In Gout they are hurtful because
 they increase acidity. **GRAPES.** according
 to Spalanzani, pass out of the bowels un-
 digested. the juice in Scrophula however
 is very useful. In Colic
 they are prohibited because they run
 into fermentation. the pulp of the Mel-
 on & orange are hard of digestion but
 the juice is very useful. **PLUMS.** made
 into jelly are of harder digestion than
 quinces. Raspberry & Crab apple jellies
 are also hard of digestion. Roasted Apples
 are not nourishing, but grateful to the
 stomach do away the sensation of
 hunger are useful in habitual con-
 stipation. **Cucumber.** Is hard of digestion
 I have known spasms to occur from eat-
 ing them. **Cherries.** I have known the
 several spasms & Colics to occur from eat-
 ing them. dissections have shown that
 the cherries are collected in balls. Doct.
 Cullen has also known death to occur
 from swallowing Plum stones. Dr. Physick
 has known death to ensue from the collected
 matter by its pressure.

The first of these is the
 fact that the number of
 specimens of each species
 is not equal. This is due
 to the fact that some
 species are more common
 than others. The second
 fact is that the number of
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 species are more common
 than others.

An Emulsi and afterward Castor Oil, is the best treatment. When grapes are used in Dysentery the juice is to be given. **FIGS. Prunes. and Raisins** are useful in habitual constipation. **Cabbage** is hard of digestion. **Radish.** & Stems of Plants are flatulent **Carrots.** are very nutritious. —

Potatoes. contain a large quantity of farinaceous matter, are agreeable to the patient. In gonorrheal bilious fever &c they may be used, but in dysentery they come away undigested they are best adapted to chronic cases where they may be used. **Animal Diet. Pork & Lamb** are of harder digestion than beef or veal. — they are to be prohibited in inflammatory diseases, & a vegetable diet substituted —

Mutton. the older this is, the better, ought to be 5 years old before the animal is killed

PORK. Is of very difficult solution in the stomach, & is therefore injurious to persons who lead a sedentary life. **Venison.** Is a useful article for convalescents and is easier of digestion than all others either smoked or fresh

Birds. those that feed upon insects are most generally. **TURKEY.** this is nourishing & easy of digestion, but ought to be full grown. the **Chicken.** when roasted is not so good when old are very hard of digestion the patient ought not resort to them

1871
Sham

Eggs. are nourishing & easily digested. if boiled
 & used raw. eggs & oysters may be allow-
 ed after all diseases, to convalescents, but
 when they are boiled hard they are very hard
 of solution in the stomach. the white of
 an egg boiled & sliced becomes exceedingly
 hard even to scratch glass. Eggs of the Duck
 & goose have less grateful flavours than of
 the chicken. an egg should only be boiled
 2 1/2 minutes. the yolk is not easily digested
 eggs with flour are of difficult solution
 and ought to be prohibited to patients. Oysters
 are of easy digestion, but the crust of oyster
 ought not to be allowed. In Typhoid pleu-
 risy, eggs with brandy can & have been used
 this preparation is easily digested is nutri-
 tious & stimulating, the eggs must be fresh
 i.e. before incipient putrefaction takes place
 In Typhoid pleurisy where the stomach is
 very irritable, the yolk of eggs given every
 2 hours has been found useful, but when
 brandy was joined the patient had to reject
 it. Eggs with wine & brandy are useful.

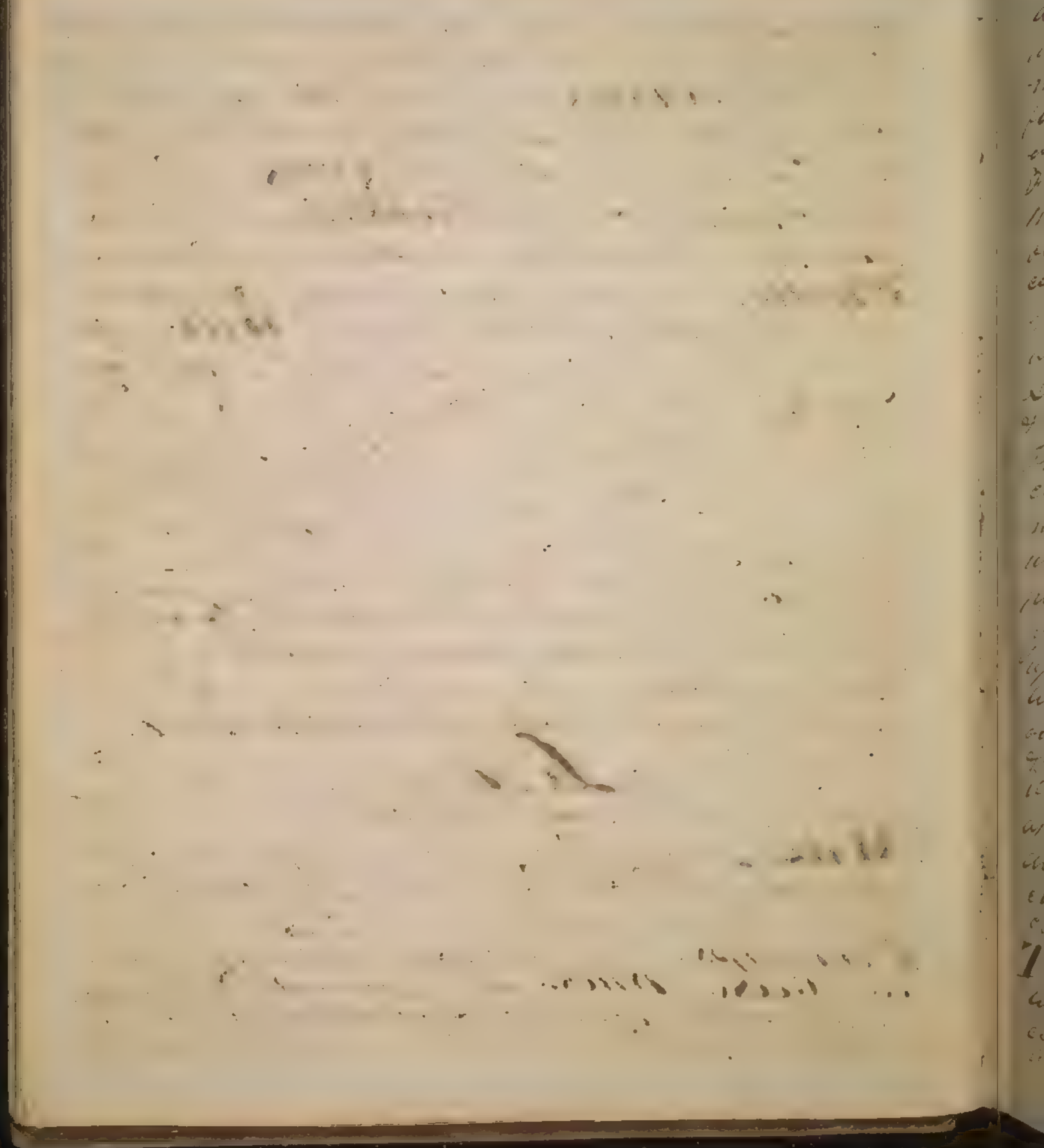
Fish. Catfish. This is supposed to be harder of
 digestion than the roach & Perch. the eel
 is hard of digestion. Fish diet is less strength-
 ening than an animal diet. oysters are
 in greater perfection here than in Europe
 (U. States) are nourishing & ought to be allowed
 first after a vegetable diet the hard cartil-
 aginous part should be cut away.

Stewed Oysters are of harder digestion than stewed
 Dr Physick recommends steeping bread into the juice
 of oysters. Clams. are of harder digestion
 than oysters, but the belly (middle part) of the
 clam is easier of digestion. Crabs. are of easier
 digestion than Lobsters. Lobsters. are of hard
 digestion I have known eclic to enoue —

Turtle. (green) the Soup is of easy digestion
 and resembles chicken broth. **Milk.** (vide
 enu) the milk from the cow is divided
 into 3 parts. 1 the oily, 2 the coagulable
 & 3 the watery part. The fresh cows milk
 is nourishing, the milk is coagulated in
 the stomach by the gastric liquor. milk
 is of easier digestion in youth, than in ad-
 vanced age. In venereal patients, with a
 great many ulcers, who could ^{not} be cured
 by mercury were ordered to desist from
 all medicine and live upon a diet of
 milk & bread, and were cured —

Lecture 6

Milk. Dr Cullen approves of milk, as in
 correcting the fluids, of acridity. in acute venous
 In Cancer I have known a Lady who had a
 cancer in her breast which was so painful
 that she could not sleep without large doses
 of opium & she was relieved of pain by a milk
 diet, milk is beneficial, to relieve pain and



and should be given, in Phthisis Pulmonalis
 without weakness, which is very much recom-
 mended, but should not be given in the in-
 flammatory stage of the disease. the whey is given
 alone, as it is generally too nourishing.
 In Phthisis, cream consists of oil curd & whey
 the 2 latter are separate in churning. the
 oil that runs out of old cheese is good for ul-
 cers in the nose (the oil I mean that runs out
 of too hard cheese) a patient in the Penn^l Hospital
 in the venereal ward who had an obstinate
 Syphilis, was cured by a diet of cheese, Rennet,
 & milk, are good in many diseases, but in
 Phthisis, milk is too nourishing. Boiled milk
 consists of whey chiefly, and has been recom-
 mended in consumption and great debility
 wine whey, is made of wine & milk in
 proportion of 1/2 of the former to 1/2 of the latter
 you boil the wine & milk together and take
 up the curd without breaking. strain it through
 linen cloth, as the curd is very irritable &
 ought not to be given. It is stimulating
 & nourishing. Milk punch is not good, as
 it coagulates in the stomach (the milk)
 as the curd is very irritable, but to old
 drunkards it is very good, as those affected with
 Chania a Potu. Dr Barlow considered cal-
 careous spar (earth) nourishing. Oxygen &
Turnips. In a raw state are easy of diges-
 tion. Geese & Ducks should be eaten before can-
 ciditis takes place. In Dyspepsia smoked beef
 is not to be given.

Fish may be allowed when you wish to give a stimulus. In Cholera Infantum salt ham is not to be given & when it is given it must be used with caution. It should be well boiled in all cases of debility. Dr. Lasey recommends boiled ham very highly in warm weather.

Beef Soup. take 5 parts beef 3 parts water put it on a slow fire & boil it until it is dissolved, then skim off the fat & boil it again. the way to know when it is sufficiently boiled is to drop some on a cold surface. if it congeals it is good & well boiled. a small quantity of pepper & salt should be added. Beef should be cut in slices & boiling water poured over it to extract the blood before it is put over the fire to boil. Chicken broth ought not to be given in inflammatory diseases as it often proves fatal by bringing on black vomit.

Lecture 7

Calf Foot jelly to a weak stomach is hard of digestion. Dr. Physick's Soup is prepared in the following manner, take 3 potatoes a slice of bread & 2 onions in 3 pints to 1 qt of water, a little salt & pepper may be added. the stomach will bear this very well. & answer better than any thing I have used. a piece of chicken may be put in to disguise it as chicken broth, & is less stimulating.

Stewed beef with plum particularly ought to be prohibited to dyspeptic patients. vinegar increases the appetite in small quantities. Capsicum is useful in Gouty habit. Is a stimulant externally & internally, as it is a useful remedy we will not speak of it here. **DRINKS.** Cyder is an innocent drink in its pure state. In Gout it is hurtful. In Colic, spasms of the bowels & stomach it is hurtful. In drunkards, where there is much debility of the stomach from the use of ardent spirits & tremors

Humulus Lupulus there is something in the hop which is stimulating, an infusion of hops is the best remedy we will resume it again in its proper place

Porter. is very good but ale is often adulterated. Porter is better & has a tonic effect. They are both flatulent. In low fevers they may be given. **WINES.** Contain Acid, Alcohol, Sugar &c the mucilage is most nutritious. the Terenceff approach es nearest to Madeira. Champagne I have given with success when the others failed. In Typhus fever - the patient not being accustomed to this stimulus. Its effects are quicker than the others but less durable. **Port.** Is most frequently adulterated. it contains an astringent quality & is therefore used in Diarrhoea. I shall resume it hereafter.

French Wines. are inferior to the others. **Gen
Rum & Whiskey.** contain about 53 parts al-
cohol 2 or parts more than half

In children arrow root made
into paste with water is much more nour-
ishing (and not producing producing acidi-
ty in the stomach) than flour & milk. Old
People cannot bear hunger long they may
therefore frequently take food.

Lecture 8

We have concluded the history of nutri-
entia & it remains for me to apply them
to disease.

Diseases of inflammatory
action either general or local, the ob-
ject in these cases is to keep the heart &
arteries free from any thing stimulating.
In Phrenitis I allow nothing but water,
with toasted bread. Patients have been
known to live a fortnight & 3 weeks, upon
this single diet. In all inflammatory di-
seases this may be allowed. **Purade**
which is bread boiled in water, with sugar
is another article, but I prefer the
former in Phrenitis, next to this is barley
water but is not so nourishing. **Mucilage &c**

Chocdate. Is nourishing
contains oil & mucilage, is apt to be
come rancid & is said to rise on the sto-
mach, this may be remedied in the following

Manner, suffer the chocolate to cool and the oil will rise upon the surface in a congealed state, skin it off & boil it again it never rises upon the stomach when this is done. **EGGS.** Boiled soft are not to be used during the acute stage of an inflammatory disease, all birds, fowls &c. may be allowed to envalercent, excepting geese and ducks. In the opposite state of the system, all articles of animal food, with spices &c. may be used especially in **Typhoid Pleurisy**, which has so frequently occurred in the U. S. Wine whey, milk punch, and eggs beat up with brandy have been used with success, the stomach is not to be overloaded but the patient may repeat them frequently, so as not to oppress the stomach. In **Scurvy**, all animal food is injurious, a vegetable diet alone is to be used. Symptoms of Scurvy. Lapsitude weakness, laborious breathing, palpitation of the heart, eyes yellow, bloated countenance, Grief, Swelled Gums, with smarting pain, bleeding of the gums upon the slightest irritation, foetid breath, the teeth loose, pain severest at night, but when a sweet breathout the patient is relieved, & cuts anserina when dysenteria

now takes place, it generally proves fatal. Oranges, and Lemons are among our best remedies. If the patient does not die in 48 hours he generally recovers. Dr Smith used raw potatoes with vinegar, with great success in the British navy, but in dysentery this is to be prohibited, and all astringent articles are to be laid aside, animal food is too stimulating in the first stage of dysentery. Sago, G. Arabic & Tapioca, have cured dysentery without any other remedy, except a purge with castor oil - Chickens are to be allowed before animal food. In Cholera the same remarks are necessary (or applicable) by great attention to diet, or nothing is to be given that is insupportable to the stomach I have generally used G. Arabic with sugar. In Gouty Patients a vegetable diet has often done good. In Phthisis a vegetable diet is also very useful. In Asthma & Cancer. It affords pain & suspends it. Temperature of diet is also to be observed, very hot is injurious producing dyspepsia. Hot tea is very injurious to females producing dyspepsia. Ice cream & Cold Water. are injurious to the body when warm, It has occasioned death. In Hemorrhages nothing warm is to be taken.

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Cold drinks, & a cold diet alone is to be used
 Coffee with sugar & cream is more nourishing
 than without them. Coffee resists fermenta-
 tion it has also often relieved head aches
 it counteracts the effects of Opium. Dimin-
 ishing nervous sensations. In Dyspeptic
 symptoms, it is sometimes useful. In peri-
 -odic Asthma. It is useful not always
 in the mode of action, but after the de-
 gree of action. **Stimulants**. are medicines
 which excite the action of the moving fi-
 -bre **Sedatives**. act directly without pro-
 -ducing evacuation.

Lecture 9

There is no such thing as a direct Sed-
 ative, by passing a Plugie into the Ure-
 thra causing & sometimes fainting en-
 -sues. **Odours**. produce the same effect,
 but these cannot act except by stimu-
 -lating the Urethra & membrane of the
 nose. How do medicines operate? on
 the solids or by entering the circulation?
 I answer that the latter is not the case
 since the most powerful medicines
 effect no change in the chyle or blood
 by the continued use of some articles, a grad-
 -ual change is produced, as is proved by
 the colour of madder in bones & by the

experiments of Dr Boerhaave, who discovered
 Soda in the urine of a patient, who had
 made free use of it as a medicine. They
 cannot however introduce active reme-
 dies into the circulation. although we
 can affect the fluids by the long use of
 others. as mercury operates particularly
 upon the parotid glands, it was formerly
 supposed to have been carried to these
 parts through the circulation, but the
 advocates for this opinion, by attempting
 to avoid one difficulty, have fallen into
 another. for it is as easy to explain the
 effect on the Salivary glands, supposing
 the medicine in the stomach, as in
 the bloodvessels. I confess myself unable
 to explain the *modus Operandi* of any
 remedy. I will engage when I know
 how one acts, to explain how they all
 act. In every case we must admit the
 agency of that power, denominated Sym-
 pathy. even if medicines are carried
 through the circulation.

I confess myself unable to explain to you
 how medicines produce their effects. &
 now proceed to speak of their effects. some
 writers consider all medicines as stimulants
 which they suppose have a stimulant
 action on particular Systems, that is

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No great advantage in this, although it is true that some diseases & some medicinal articles act especially upon particular parts of the system. I have divided all remedies into 2 classes, evacuant & stimulant and the first class I have also included antispasmodics and Galagogues.

Evacuants.

Bloodletting
Emetics
Cathartics
Galagogues
Diuretics
Diaphoretics
Anticholeric
Ergastic

Stimulants.

Tonics
Astringents
Sarcotics
Antispasmodics

This arrangement in itself unimportant will I trust assist you in acquiring a knowledge of Materia Medica. I shall proceed to speak of **Bloodletting** as it is the most direct & powerful evacuant we possess I should consider it an unwarrantable omission, if I passed it over in silence. It is a convenient remedy and during the fluctuation of medical theories, it has always been considered a most powerful agent in the hands of the practitioner. Boerhaave who was as you all know the famous

Sanguendo wrote a treatise on this subject
 recommending it in all cases, while others
 have erred in the opposite extreme. Louis
 13th, King of France during the last 10
 months of his life, was bled 47 times, purged
 2109 glysters 230 times. It is a natural rem-
 edy since as Dr Rush says nature often
 performs it. by habit bloodletting loses its
 efficacy, and by habit the use of it is
 made necessary. after injuries of the head
 it is important to bleed very largely, in
 order to prevent extravasation & inflama-
 tion of the brain. when some customary
 evacuation has been suppressed, it often
 becomes necessary. In this country a preju-
 dice prevails against bleeding old & very young
 infants, yet experience has found it quite
 as necessary & important in these cases as
 any. In Switzerland old people are frequent-
 ly & regularly bled, & the health they enjoy
 is a proof of its utility. In fever it is indis-
 pensable, & its most prominent effect is to
 reduce the excessive action of the heart
 and arteries, & in other words to subdue
 or reduce the violence of the symptoms
 the extent to which it may be carried
 in cases of disease is uncertain. In a
 case of apoplexy Dr Physick took 903.

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at a single bleeding. In injuries of the head I have bled five times a day, nearly to the extent of Mr Kline, who in a similar case took 320 ounces of blood in 20 days. Haller relates a case where 22 lbs were lost at once. This would be incredible were it not for the gradual loss, giving time for a new supply. When venesection is much used, the power of exsanguination is proportionably less. During the yellow fever. Dr Koch and Physick were accused of bleeding when the blood no longer stained the linen, this although not exactly true will show you the effects of the evacuation.

It produces a diminution of disease or morbid action, and in Remittent fever should be employed, when the action is most violent. I have repeatedly cured intermittent fevers by venesection and blisters after tonics had failed. In continued fevers, venesection may be used at all times. Dr Haller by condemning it is Synochus and Syphilis has misled thousands, who have from the fear of debility, deprived their patients of this necessary & important remedy. In acute diseases I would never

refuse to bleed, for fear of debility, because in fever bloodletting is certainly the most powerful tonic we possess. If the system is weak after the evacuation it would have been weaker without it. In this Country Dr. Cullen's directions have been productive of a vast deal of mischief, but his practice applied to our diseases, is productive of the most pernicious consequences.

Lecture 15

In 1793 and for several successive years our City was visited by a most fatal Epidemic. The dispensations which occurred are probably known to you all. It is not my intention to disturb their ashes by telling they should be consigned to quiet and forgetfulness. at this period it was my fortune to study and acquire the Elements of medicine, and to receive impressions which will never be forgotten. That rule which from its importance has justly been denominated Golden, was at this time most strangely inculcated and Physicians were taught the importance of adapting their remedies according to the state of the system.

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On this disease yellow fever must be employed boldly & repeated according to the violence of the symptoms. on the third day the pulse was frequent tense full or depressed, and required the use of the lancet. In all these cases venesection must be repeated, as long as the pulse rises from feeble action, repeated until the violent symptoms subside. Dr Rush said that venesection when not carried to the requisite extent was prejudicial. I will now state to you some cases in which bloodletting is improper. It is so when the leading symptoms are debility. the late epidemic was said to be an instance of this kind. the cases which fell under my own observation were ushered in with inflammatory symptoms, & here I unhesitatingly resorted to the lancet. to refrain from bloodletting because debility was to ensue, was a most ridiculous practice - which deserves nothing but continual reproach. there was however in this disease a deceptive pulse, very easily recognized and unlike the usual inflammatory pulse of Pleuritic patients. Dr Rush forbids venesection, when the viscera and brain are engorged with blood. In both cases, the pulse is feeble, & says the Doctor

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the loss of a few ounces of blood would prove
 fatal. after the pulse is excited by friction
 and gentle stimulants, blood may be
 taken with advantage. these remarks on
 the engorged system are valuable, but I
 do not think the theory is correct. stag-
 nation in the blood vessels has never been
 demonstrated, and should it take place
 gangrene would be the inevitable result
 that however furnishes no objection to the
 practice of Dr Rush, which experience
 has confirmed as most useful. It is in-
 proper in the conclusion or advanced sta-
 ges of inflammatory disease. I am sorry
 that Dr Rush should say it was improp-
 er to resort to it in malignant fever
 if not called in before the third day.
 What? Refuse to bleed with a tense and
 active pulse because three days have
 elapsed. In many cases the pulse requires
 the use of the remedy even after many
 days have elapsed. Bleed therefore gently
 in every stage of inflammatory fever
 when the symptoms demand it. The idea
 that we are to refrain from venesection
 because debility is expected, or after 3
 days have elapsed, should be opposed. as
 a general rule however it may not be

necessary in the advanced stages of disease.
In the concluding stage of a paroxysm of
intermittent or remittent fever, venesection
is improper. In accidents, though venesection
is generally indicated, yet in gunshot or
punctured wounds, in hot weather it may
not be safe, in those cases as you will learn
from the Professor of Surgery, the importance
of a proper position. In the same diseases
& accidents which in temperate persons re-
quire bloodletting, but when they occur
to intemperate people, we are under the
necessity of using liberal stimulating sub-
stances, as in mania a potu. If however
general inflammatory symptoms supervene
venesection is proper. After large abscesses
are opened inflammation sometimes ensues
it calls for the use of the lancet, as
much as if an abscess had not taken
place. Whenever an effusion of serum
or pus produces reaction bleed. In recu-
ting the cases in which venesection is re-
quired, it must in all critical or doubt-
ful cases, direct your attention to the
pulse, in such cases see the operation
performed yourself, because you cannot
judge before hand the quantity which
will be necessary. In the class of diseases

which Cullen has denominated, Phlegma-
 sia, venesection is the most important reme-
 dy. after removing the remote cause, the first
 thing is to bleed, in order to destroy the dis-
 ease & restore the healthy action. the ef-
 fects in these cases are 1st Pain is imme-
 diately relieved, 2 Morbid heat, 3 disorder
 state of the functions restored. In acute Men-
 monia you have an example of this
 effect, 4 it prevents termination by gan-
 grene or death. 5 It prevents the effusion
 of serous fluids, which destroy organi-
 zation. prevents hemorrhaging or effusion
 in the brain, & Coma. I might extend
 this catalogue to a much greater length
 I will here mention but two of
 the system for the operation of it. 1st It prevents
 dis, you will often have occasion to ve-
 rify remarks of Dr Rush on this point
 7 It removes local congestion of vessels
 and restores them to their natural function
 these are not the observations of an en-
 thusiast, but they are such as every
 days experience, will convince you at
 all times. In local inflammation, venese-
 ction is carried to a great extent, than in
 general fever. I confess that I have my doubts
 respecting the existence of fever, without

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Local inflammation, having always found it to exist in Bilious & Typhus fevers, but these are cases of general fever (if any such exist) In humia humoralis I have bled daily for a week. I after that time bled only once in 48 hours, which produced a speedy recovery. I proceed now to speak of venesection in particular inflammatory diseases. In Ophthalmia venesection general and local are the principal remedies. The vessels must be emptied by the continued use of this and other remedies.

I was lately called in a case where melted soap was thrown into the eye, and the tunica conjunctiva, was arrested from the effects of the heat (produced by the soap) by very liberal & frequent bleeding, and by the constant use of Ice water. The patient's vision was relieved. But I am convinced no other remedy would have been successful. I bled as frequently as in Bilious fever, and with as much advantage. We are directed to seize diseases as time by the firelock. To take them in their forming state, in no case is this rule more applicable than in inflammation of the eyes. By a case in the elements of Surgery, you will see how frequently we may be obliged

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to repeat this remedy. bleed as long as inflammation continues, & when general venesection is no longer safe resort to local depletion.

Phlebotomy large and repeated bleedings are here necessary. Cullen recommends opening the carotid artery or jugular vein. In cancer there is no necessity of performing this operation the only precaution which is necessary is that you employ the remedy to a sufficient extent. In America I am fully persuaded of the superiority of the treatment introduced by Doct^r Rush. Cullen recommends to bloodletting Dr Rush enforces its importance. & the records of that institution, where his practice was adopted, prove its incontestable value.

Here from 20 to 30 $\frac{3}{4}$ are to be taken untill fainting ensues. Dr Rush recommends performing the operation, while the patient is in an erect posture. If he would be kept in this posture there would be some reason in the remark; but I should prefer the situation in which he is to remain because in that case more blood may be taken without inducing syncope. The remedy is to be used as long as the symptoms indicate

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In mania a Potu patient will not bear the use of depleting remedies. I have used leeches and cupping with some success. Emetics were easily introduced in those cases by Dr. Colap. in the Almshouse. I shall speak of this when we treat of emetics.

Lecture IIth

Sometimes after an abscess is formed (opened) septic action ensues, in consequence as Mr. Hunter supposed, of the imperfection of the cavity, according to others the admission of air. I believe that both these causes have considerable agency, in the production of inflammation. I mentioned that one advantage from venesection was to prevent disorganization, from the secretion or effusion of coagulable lymph or pus, this direction is particularly important in diseases of the eyes when disorganization is inseparable. I go on to speak of venesection in other diseases. In all inflammations of the throat and fauces it is useful. In Cynanche Tonsillaris it prevents suppuration and is efficacious if employed early. In Cynanche maligna the lancet is occasionally required, but as a general rule it is not indicated in this disease.

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In *Cynanche Trachealis* it is of immense importance, and should never be neglected even in a young subject - of the child less than one month old. If venesection is found difficult to a 15 leeches are to be applied to the throat first immersing them into warm water, or they will do injury otherwise by cold. In *Cynanche Parotidea* venesection is indicated, & the neglect of it has led to the swelling of the testicle or *hemia humoralis*.

Of all the pyrexia pneumonia is said to require the most liberal use of the lancet. Dr. Baller's directions on this point are very useful, and to them I refer you (Galen). I have bled 5 times in one day in pleurisy. The disease in this country, requires the more free use of the lancet than in Europe frequently at the first bleeding your patient will not bear the loss of more than 8 $\frac{1}{2}$ oz. of blood without fainting, yet if you again apply the ligature in 2 hours after, he will be able to lose 15 $\frac{1}{2}$ oz. Be guided by the state of the system. You will find V. S. more useful the first day, yet be not deterred if 4 days have elapsed, nay though



A fortnight, has elapsed, without using the remedy, as for the quantity no general rule can be given 16 $\frac{3}{4}$. being a full bleeding. more a larger, less than 12 $\frac{3}{4}$. a small one 5. It is generally as much as the patient can bear to lose, after the first four days if pain becomes the urgent symptom, use leeches or cupping but if you wish to relieve difficulty of breathing, open the vein of the arm as it is the most effectual. Study Dr Cullen for directions in this disease. his practice is judicious. In other inflammatory diseases of the chest, not even excepting pulmonary consumption, with muscular debility, blood-letting is proper in the latter case, however we apply leeches to the back or cupping. Hepatitis. venesection is here the most important evacuant we possess.

even in Odontalgia Dr Rush recommends venesection. Mr Hudson our most respectable dentist, advises leeches in tumefaction of the gums.
Gout. Under certain circumstances venesection is the most important remedy. In many cases excruciating pain

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Is relieved, when Calomel, Opiate &c have been used in vain. Dr Rush has done more service to the faculty, by enumerating the benefits arising from venesection in the disease. Eruptive Diseases. Here it is useful for me to particularize. The cases in which it is proper. In almost all of them it is proper and you should never refrain from it, for fear of debility, for the disease is more debilitating than the evacuation. In these diseases venesection has only the power of diminishing morbid action, not of changing it. Hemorrhagy which is accompanied with febrile action, is to be cured by venesection. It might be supposed that Hemorrhagy would cure itself, but nature in such cases does not manage judiciously. If hemorrhagy is produced by a local affection, it is cured by venesection. we are to employ it in epistaxis it is often important.

I am no advocate for venesection in every case, as it is apt to produce a frequent recurrence of the disease hence other evacuations are to be preferred. Hemoptysis. here venesection must be employed, so as to keep the action of the heart & arteries below the healthy standard.

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During the discharge, common salt sugar
 of lead & other remedies are to be used. and
 the patient is to be kept in bed in a cool
 room. **Hemorrhoids**. Here local bleeding
 is necessary, I generally make 5 or 8
 small punctures, with the lancet in
 preference to leeches. they should be made
 rapidly so as to allow the discharge of
 blood. **Menorrhagia**. Here venesection
 is important. this is usually accompa-
 nied with febrile symptoms, and we are
 to judge of the propriety of venesection
 by the state of the system. **Hematemesis**.
 The pulse is an excellent test as of the
 necessity of bleeding, usually however
 the discharge is so great that we are
 obliged to support the patient's strength.
Apoplexy. here bloodletting is the remedy
 the voluntary motions are destroyed, when
 the action of the heart & arteries continue.
 It is essential to evacuate largely & rapidly.
 -ly therefore I prefer bleeding my patient
 in an erect posture. I sometimes open both
 arms. Every thing retarding the motion
 of the blood, from the head should be remo-
 ved. In palsy the cure is to be conduc-
 ted in the same general rule always at-
 tending to the state of the system.

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Lecture 12

In many of the "opinions" of Dr. Cullen venesection is an important remedy, it ought however, never to be used in ~~tetanus~~ ^{tetanus}. I state this with confidence having seen it employed in several cases, & always with decided ill effects. In every case when I have seen venesection employed the patient has died. In hot weather & in hot climates, this disease frequently results from wounds, and on this occasion, venesection in these cases is to be used, but cautiously. It is generally safe after wounds in hot weather, to bleed as long as there is febrile action. I have done so in one case in which tetanus & death were the consequences. In a violent fit of hysteria, I have known 2 qts of blood taken away, which produced an immediate cessation of the convulsions. In Epilepsy it is sometimes useful, but the remote causes are so various, that we can give no particular matter of cure. **Cold.** With Sydenham & Rush venesection was a favorite remedy though Cullen feared an evacuation when we come to purgatives.

I shall tell you that it bears evacuations, and is treated successively by the use of purges. I have two general rules to give you, relative to the use of this remedy. Bleed in all difficult cases of expiration & for the relief of pain. — bleed when the pulse indicates it. in Colic. venesection is to be employed it relieves the violent spasms and prepares the system for the operation of other remedies.

In bowel complaints the pulse seldom indicates venesection, and here it is to be employed in proportion to the pain & violence of other symptoms. I have said enough respecting this remedy, to show you its importance, and give you some general principles to guide you in the use of it. Remember that it is the most powerful evacuant we possess, having urged you to employ it in a bold manner. I wish you also to remember, that in using it, the better part valoury discretion. If you follow the principles I have given. you need not fear carrying the remedy too far. I know it has been abused and that in the hands of

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Ignorant Men, it has been injurious. But I also know many, who have been cured by it, of violent malignant fevers, imputed venerection the cure of their disease the lingering effects of their disease

Of the use of venesection in Surgery you have some remarks from the Professor. and also the manner of performing it. Much has been said of opening veins in the proper place. Those of the arms are most convenient, and this also answers every purpose. In opening the jugular or carotid arteries, the latter operation ought never to be performed

Topical Bleeding. Scarifications are used in local inflammation, thus we divide the loaded vessels of the adiate with great advantage. The benefit is obvious but the explanation is not so easy as the

In Cranche Tonsillares. I have often employed it with great success. Cupping this is a favourite remedy in topical inflammation, not however to be employed until the system is reduced. Blood is to be let so gradually, as to prevent Syncope

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And hence we often recommend it, & com-
pelled to these evacuations. In Hemierania
and as a to venesection in vi-
olent pleurisy. In cases of a doubtful
character it is useful and safe, whether
it is useful only evacu-
ation. I cannot say, probably both.
Leeches. The important when cupping
would prove too irritating as in

of the joints. They can be applied
more directly to the part as in Ophthalmia
they are less painful

I must ask your attention a few moments
to the ridiculous manner of applying
them in England 2 or 3 at a time.

As far as I have observed 20 leeches draw
from 4 to 5 ℥ of blood. The mode of keep-
ing them is pointed out in Cooper's dis-
pensatory. They are often employed when
we wish to bleed children, & where it is
not practicable to open a vein. There
is an important prejudice against
bleeding very young children, which in
many cases have proven fatal. They
live after accidents & diseases which
would destroy adults, & they bear the
operation of all medicines better, except
salivation, which if excited in very young

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children prove fatal. the difficulty of
 bleeding infants should not deter you, as
 you will frequently be called to visit them
 struggling with Croup & bleeding will be
 the best & only remedy. In Hydrocephalus
 and Convulsions - even it is important. In
 short symptoms of disease in children it
 requires venesection as much as in adults
Emetics are a second on my list of evac-
 uants. vomiting is sometimes a natural
 action, and when properly managed is not
 dangerous. Some have supposed the abdo-
 minal muscles principally active in vomiting
 but this is disproved. by a cruel experiment
 of Mr Haighton. he opened the abdomens
 of several animals whilst vomiting, & saw
 the contraction of the muscles of the stom-
 ach. In cases where disagreeable med-
 icines have been taken, we frequently
 see the Oesophagus contract, so as to
 prevent the repetition of the dose, not-
 withstanding the patient exerts himself
 to swallow. In vomiting the stomach &
 duodenum are principally active, and
 they have frequently been lacerated by
 the violent contraction. Darius thinks
 of vomiting is not curable. as no emetics
 diminish the energy of the stomach

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It is true that the action of the heart and arteries are very much diminished but the same effect is produced by injecting wine into the tunica vaginalis, and no one will say that this injection acts as a sedative. **Emetics.** The operation of this class of remedies, is much affected by peculiarities of Constitution. In mania it is necessary to give very large doses. After poisons have been taken into the stomach emetics are required to produce even a moderate evacuation. My two Predecessors have spoken highly of emetics, in fever they should according to the direction of Dr. Hottelungie be preceded by venesection. The bilious Fever, when nausea & pain in the head, and discharges of bile are urgent symptoms, emetics are indispensable. It is a mistake to order them in intermittent, to prepare the system for the action of bark. If the system be excited, venesection purges and emetics are to be employed but in milder cases, emetics are beneficial, given just before the paroxysm. Previous to the use of tonics, Forage combined, Ipecacuanha & Tartar emetic

And gave them in the Paroxysm, his object was to produce a crisis similar to what takes place in the natural crisis. Emetics often produce redness of the face and turgescence of the vessels of the head, in which cases follow Sydenham's direction & premise blood letting, & tis best to give an emetic afterwards, as the blood vessels are more emptied afterwards (at this time) In Epilepsy they have been found to prevent the accession of the Paroxysm. —

APOPLEXY. I have never seen a case of this disease, so manifestly arising from an affection of the Stomach, as to induce me to give emetics, as in these cases I always prefer venesection and cathartics. I was led to this preference by witnessing the fatal termination of a case of apoplexy, in which an emetic produced a rupture of one of the blood vessels of the brain. But emetics are invaluable in cases of apparent apoplexy, arising from the quantity or too great quantity of food taken into the Stomach. I do not consider this as an apoplexy for these reasons. 1st It arises from different causes 2nd abuse of

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breathing. Low & small pulse, more frequent than in apoplexy. Distention of the stomach & bowels, is evident by laying the hands on them. In these cases Emetics are of primary importance. Just raise the patient's head, remove all obstructions to the return of blood from the head, bleed and give an emetic. *Hydrocephalus Internus*. Dr Chapman considered this a primary affection of the stomach, which requires the use of emetics. I am not convinced that the disease always arises from disorder of the latter viscera, and the cases we have dissected have not led me to the same conclusion. I have always found an effusion in the brain. In an affection of the alimentary canal you will hear from him the best treatment.

Of the use of emetics in fever. I advise you to read Dr Cullen's observations. 171-9 section. In acute Rheumatism occurring in marshy countries, Dr Barton recommends Emetics. Dr Chapman has used them in the same cases with advantage. Not being conversant with that disease except in the city. I can recommend them only on the authority of my predecessors.

In chronic Rheumatism small doses to nauseate are useful. Dr. Barton recommended emetics in gout especially retrocedent gout. which in his own case he found serviceable. I would not however as a general rule apply them (employ). In diseases of the eyes emetics are sometimes useful but they are not to supersede the use of better remedies of general & local bleeding purging blisters &c. &c.

P S S S
Lecture 10th

In the various affections of the throat emetics are useful more especially in cynanche tonsillaris. Some prescribe an emetic after suppuration has taken place in order to burst the abscess. this is a awkward & unjustifiable practice. If you use the lancet, introduce it with linnen wrapt around it leaving about half an inch bare of the point and then introduce it into the succedaneous tonsil. If there is pus it will be discharged, & if there is none the operation will do no harm, but good. It called upon to say which medicine was most valuable in Cynanche trachealis. I should place emetics as first on the list when called to a case of croup always take your lancet & emetic tartar. I give the latter in large doses. Dr. Chapman gave 15 grs to a child at a single dose. It should be employed in divided doses by which sometimes the dose of this class of remedies. In all diseases common with active remedies in their early stages.

And this rule is particularly applicable in croup. The disease sometimes extends to the bronchia, & requires copious venesections, purges of calomel, blisters, & some prescribe emetics to evacuate the membrane which is formed in the trachea. There is no use in this, if respiration is impeded it is from other causes, as the membrane now closes the aperture, how far emetics may be of service, in relieving the spasm, I do not pretend to say. But I am sure that when suffocation occurs, it arises from the spasmodic contraction of the muscles of the glottis, and not, from the membrane. I once commenced the operation of trachealotomy on a child who appeared to be in articulo mortis, from suffocation, and in 5 minutes breathing was restored through the glottis, without difficulty. In this case the loss of blood was trifling compared with the previous evacuation, so that I impute some part of the effect to fear. This is a disease in children which has been treated in too timid a manner, whenever Practitioners are more bold, with their remedies, the disease will perhaps prove to be less fatal. & vice versa

Lecture 14

In fevers of the Southern States emetics are of no benefit. generally preceded by venesection & cathartics. In mania emetics are to be given in large doses, & in this manner have proved very useful. They have lately been introduced into medicine by Mr. Klapp. In mania Poterius he gives ʒjss Tart. Emetic, and states that when the pulse is weak and the patient debilitated, that the patient's strength is increased by the use of emetics. when emetics are indicated use them. but I have generally employed powerful Stimuli, where the symptoms are submissus terdium, black tongue weak pulse &c. In Eclampsia & Tetanus nauseating doses of emetics are useful, but symptomatic requires free use of Stimulants especially Opium. In the latter disease I never knew evacuations beneficial. on the other hand bleeding or purging has always been attended with an aggravation of the disease. In reducing luxated bones, or hernia, emetics are of great use, particularly where bloodletting is contraindicated. This practice originated with Physick

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(with Dr. Physick) 10 years ago, and has recently been forwarded as an original improvement by the Surgeons of London. foreign bodies are frequently lodged in the Oesophagus, which we are unable to dislodge by probing. in 2 cases when peach stones were swallowed they were dislodged by ordering the patient to hold in his mouth a solution of Tartar emetic, which produced nausea & relaxation of the oesophagus & excited vomiting although we had no reason to suppose that any portion of the emetic reached the stomach. Biliary & other calculi are frequently dislodged in the same manner for which warm emetics have been prescribed in jaundice. In many affections of the head emetics are very important. Sick head ache is generally relieved by an emetic. Dr. Barton's favourite remedy in these cases was 15 grs of Ipecacuanha. There is a severe chronic pain of the head which which arises from external injury, but which does not affect the brain. Dr. Physick has studied this disease for a long time in order to ascertain the best mode of treating it. When I was in London I made enquiries of all the Surgeons in the place concerning it. all of them had seen the affection but could recommend no cure. Dr. Physick has found no remedy so useful or does of emetics, repeated daily for a few days and often that cure in 28 hours. — Puerperal Fever. In this disease the Uterus is in a high state of inflammation & consequently attended

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With great danger. Emetics may sometimes
 be useful, but that they have any specific
 operation on the Peritonium or Perium I do
 not believe. Black vomiting sometimes oc-
 curs, similar to that which was one of
 the most dangerous symptoms of yellow fever.
 The diseases have much the same reser-
 vance, and in a case of purple fever with
 Dr. James I pursued exactly the same treat-
 ment which yellow fever required and with
 success viz. venesection, purges, blisters &c.
 therefore in the use of emetics in this dis-
 ease observe the same rules which I
 laid down in speaking of bilious fever
 and especially if nausea & pain in the
 back occur an emetic will be useful.
 hemorrhages in hemorrhoids & uterine
 hemorrhage small doses of tartar-
 emetic are useful. In bloody urine
 (Hematuria) *Spica anthemina* & opi-
 um are of great service. Dr. Barton
 considers the *Spica anthemina* a spe-
 cific in this disease as it did not en-
 nauseate. It has usually been consid-
 ered as an astringent Power. The O-
 pin is an important part of this pre-
 scription. In hernia humoralis emetics
 are sometimes serviceable, but they
 ought always to be combined with
 bloodletting. emetics are sometimes em-
 ployed to disengage buboes I generally
 employ blisters which have a great
 effect of absorbing pus. In Dysenteria
 &c. are recommended or useful to promote

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Absorption, but there is less reason to believe the
 effectual in this than in the preceding disease
 & vomiting does are to be given. Vomiting
 is serviceable in dropsy depending upon
 obstruction of the liver, or other viscera
 and in anasarca from intermittents
 or miasmata joined in combination with
 effluvia. In the repeated efficacy of emetics
 in hydrocele I have no confidence, but
 in acute inflammation of the parts, I believe
 that an emetic upon the alimentary
 canal will be more effectual. Dr. Rhoads
 has lately published a work
 to prove that this disease arises from
 strictures in the urethra. I have seen
 some cases of this kind, and Dr. Physick
 has always noticed the same in his lec-
 tures, but they are comparatively rare.
 In Idiopathic hydrocele, I employ
 no medicine unless there is infla-
 mation, but immediately resort to
 the radical cure by incision. In
 Sympatric emetics have been used
 with success. If emetics have cured
 these diseases, I believe it to have
 been in those cases, which I consider
 as febris Intestina, we are to pursue
 the same course of treatment, as in other
 febrile affections. In one case, I took
 10 ℥ blood the first day, and this aided by
 purges and blisters cured my patient. In
 treating this disease, I entirely lose sight of
 the cause, considering their affection
 as now day to the febrile action which
 must be reduced. If nausea or pain in
 the back attend this disease emetics are
 indicated. In Dysentery, when the diges-
 tive powers are impaired, producing what is termed

by the vulgar foul stomach, emetics are in-
 dicated. In diarrhoea from catarrhal af-
 fection, small doses of emetics are useful
 by moving Diaphoresis. I always direct my
 Patient to wear flannel near his skin.
 In Dyspepsia small doses of emetics are some-
 times useful. In weak stomachs of secon-
 dary habit, marked by the usual symp-
 toms of Dyspepsia. I therefore recom-
 mend the repeated use of emetics. In this
 disease exercise is the proper remedy.
 I have told you never to prescribe
 emetics unless in disease. In Rickets
 it is often necessary to prescribe emetics
 in the commencement but they should
 be followed up by the cold bath & tonics
 &c. Surgeons are often called to restore
 distorted limbs from Rickets, which is
 to be done by purging, emetics, cold
 bath, &c. In Pili allus & Chlo-
 rosis, emetics are recommended. Pic
 Doloureux, usually occurs in all
 people. I have seen it in people from
 47 to 75 years of age. It is a painful
 attack upon some part of the face
 sudden and excruciating, usually las-
 ting in a minute, and returning at the
 end of an hour, the pain is usually
 beneath the eye, or malar or tempo-
 ral bones. Patients describe the pain
 different, some comparing as to the pricking
 of needles, others as a different, eating
 talking gentle touch of the bed clothes,
 or of a handkerchief lying it on,
 whilst strong pressure produces no effect.

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If the Patient has any teeth they are generally more sensible, but it frequently occurs without any affection of the teeth. It is different from Rheumatism or ague in the face, which is sometimes connected with the face (teeth) and often occurs as an intermittent. Tooth ache & ague occur in the early part of life. Tic Dore occurs in advanced age. It is a local severe pain unattended by inflammation and never ends in suppuration. Dr. Hothevall describes it well but his theory is false. He attributes it to a carious quality of the fluids, but the affection is totally unlike caries. Within a few years no any remedies have been employed, with various exceptions, such as electricity: after this the actual was resorted to, the most successful operation which I ever witnessed was that of this disease, which in Paris I saw applied to the cheek & set on fire so that the patient's face was totally blackened. Dr. Hay and the London Surgeons have divided the infra orbitary by which means they often suppress the disease, which in a short time recovers, or almost cut away $\frac{1}{2}$ an inch of the nerve to prevent its reunion. Dr. Physick having performed this operation but without success, and knowing that the common remedies are ineffectual resorted to the use of Emetics. He was led to

This by knowing the sympathy between the stomach and other parts and that other painful affections are frequently relieved by powerful impressions made upon the stomach. several cases have occurred which we have treated in this manner with complete success. and if the remedy is as effectual in your hands as it has been in ours, we shall have the satisfaction of removing one of the too long lists of *approbata medicorum*.

Lecture 15

At our last lecture I spoke to you of the efficacy of emetics, in several chronic pains of the head by succeeding injuries on that part. I also called your attention to the great efficacy of these remedies in the cholera morbus. Dr. Physick told me that one of his patients continued well (free from pain) for three years. In eruptive diseases emetics are useful. In Exanthematous they are serviceable, on the same principles as in the febrile diseases. But there are several diseases (eruptive) depending on disease of the stomach, as a species of intussusception

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Eating fish. In which case emetics properly administered are the best remedies. The mode of exhibiting them requires care. In poisons give them in prompt and large doses. In hypochondriasis (to be useless) they must be repeated daily and that for a long time. They are not to be given in the advanced state of pregnancy, and for obvious reasons neither hernia, or protrusion will be the consequence, when there is plethora always premise venesection, as a general rule always give them in divided doses, to prevent the bad effects arising from an over dose. when excessive vomiting is produced use opium, syraps and blisters. Drinks render the evacuation easier, but the patient is not to drink until vomiting commences. Large potations are better than small & frequent sippings, and that must be attended to. warm water or baln tie are as good as any drinks for this purpose. they are not so essential for children as for adults nor would they be willing to drink during the nausea which the emetic

Produces. If a violent operation is
 desired, or a powerful impression
 on the system, no drink is to be al-
 lowed. suffer the emetic in such ca-
 ses, to exert its full power on the
 stomach. Some have divided
 emetics into weak or warm water
 tickling the fauces &c. Into common
 as *Ipecacuanha*, and into the
 powerful. Dr. Sarsen divides them
 into four classes but these subdivi-
 sions are useless and serve only to
 burden your memory. I shall speak
 first of vegetable emetics, and of them
Ipecacuanha to be placed at
 the head. Its generic name is *cali-*
coca. It is a peruvian plant
 not well known, until within
 a few years. the thick lumpy part
 of the root is most powerful &
 our druggists are careful not to
 purchase those roots, which have
 numerous fibres growing from the
 It is sometimes difficult to prescribe
 the proper dose of an emetic, owing
 to the great difference in the medi-
 cine's properties. Dr. Lewis' work of
 the comparative merits of different

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Kinds of medicines & Drugs is valu-
 able. and for those of you who purchase
 your own medicines, it is essential
 there are two kinds of *Speacacummas*
 in market, the brown and ash colour-
 ed. Practitioners generally prefer
 the latter. Dr Cullen supposes the
 efficacy of *Speacacumma* to reside
 in the Denticular part of the root
 but he is mistaken for the whole of
 the root is emetic. The bark how-
 ever has double the strength of the
 ligneous fibres. Wine is an excellent
 menstruum to extract the medi-
 cal properties of *Speacacumma*
 which are considered to be of a
 resinous quality 32. *Speacacumma*
 to 2 parts ~~water~~ (wine) Spirit may
 also be employed. vinegar & water
 are some times used. but the best
 mode of administering it is in sub-
 stance. Its active properties are of a
 volatile nature. on which account
 no decoction ought to be employed
 and the root ought to be confined
 from air in close vessels. I proceed to
 speak of the diseases to which *Speac*
 is peculiarly adapted

It is not to be used in cases where violent vomiting is desired, it often affects the bowels, does not depend on the capotive quality. In dysentery it is much used & is valuable. In S. America is considered a specific. Dr. Morely who employed it in the W. Indies, ascribes its efficacy in this disease to its action on the skin. He gave from a scruple to $\frac{1}{2}$ gr. and kept his patients in bed, in order to produce diaphoresis. Dr. Murray considers it as an antispasmodic, in its effects and by Dr. Chapman it is considered useful by reducing arterial action. Its good effects in dysentery are obtained by giving from 2 to 4 grains every few hours. Dr. Barter's favourite cure was 12 grains of pecaenanna 2 grains opium & 20 grs of prepared chalk, divided into 8 powders & one given every two hours. I have used the above preparation (of Barter's) in these cases with success. In diarrhoea it is as valuable perhaps as in dysentery. In habitual diarrhoea with sickness at stomach, little taste with frequent discharges, 1 or 2 grs of pecaenanna before rising in the morning, & an opiate at bed time, are said to be useful. In hemorrhagic pecaenanna is a valuable remedy. In uterine hemorrhage keeps up with a constant nausea

and to obtain its full effect, use it with opium. It has been observed that when vomiting is excited, in that disease it is at first increased. The following prescription is an excellent remedy in that disease. / R Saccharum Saturni 3 grs

Divided into 4 doses { Opium - 16 1/2 grs
1 every 2 or 3 hours { Specae. 18 grs

In fever 1/2 gr Specae & 10 grs nitre are much used. In Intermittent & long sharp. I have found it very useful. another practice is to give 5 grs before the accession of a paroxysm. It has been employed in curing consumption with all advantage in that disease it was much used by Dr. Bacter & Kuhn. 1 gr Specae with prepared chalk 8 times a day. In dyspepsia 1 gr is useful. it does give rise or not to excite nausea.

In asthma it has been recommended particularly by Dr. Ederside, it is given in doses of from 3 to 5 grs every morning so as to produce vomiting nausea if vomiting is excited, diminish the dose I might quote many others in favor of this practice. In **Hyalothroax** small doses relieve difficulty of breathing. Dover's powder has been found useful in other parts of the body.

When poisons are swallowed $\frac{1}{2}$ $\frac{3}{4}$ Specac. will operate promptly. It is also useful to increase the purgative operations of other remedies, as Specac. & wine 2 $\frac{1}{4}$ to 2 $\frac{3}{4}$ Specac. dose 1 $\frac{3}{4}$. Infusion, 1 $\frac{3}{4}$ to 4 $\frac{3}{4}$ water, given in 4 doses. The powder is usually the best mode of giving it. The next article is *Spiraea Troj. Bidd.* root. this plant is nearly allied to Specac. in its medicinal properties. The leaves larger than which grow in connection. Leaves similar. Its medicinal properties reside in the root and the bark is the most efficacious as in Specac. It is best cultivated by transplanting the roots. The seeds sown will answer & should be sown in the fall. This was a favourite remedy of Dr. Barton, but I am not conscious that it is in any respect superior to it. Those who live a distance from the sea shore may find it a convenient substitute. But I do not see the duty of those who can readily obtain Specac. to use it. The doses of this remedy of 40 grs. for a medicinal object, even to its use. I am unwilling to lend it a *Uaccina alcedia*, with unnecessary substitutes, should this remedy be found in some disease superior to Specac. it will attract a more respectful notice.

Lecture 10

Nicotiana Tabacum. "Possesses emetic powers in a great degree. It has been recommended by my predecessors, where poisons have been swallowed, but I think the system will be much reduced as in the exhibition of *Digitatis* but in the form of a cataplasma applied to the stomach. *Scilla Maritima* (sea onion) grows in Spain Sicily & Portugal. That which is found in large irregular black pieces, contains much extraneous matter, & should not be used. That

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that which is in plump masses clammy matter & unctuous, is the kind used. In hydrothorax it fails, from its being mixed with extraneous matter. 4 grs is a druggist's state, are more active than in a recent state. used in hydrothorax Cough asthma pulmonary disease & dropsy are seldom given to vomit but to nauseate. 4 to 5 grs as an emetic 1/2 grs to 2 in substance with wine I prefer it. **General Emetics**

Antimony (crude) Is a combination of sulphur & antimony, a portion of pure antimony may combine with an acid & form a salt. Tart. emetic (now made) is tartarised antimony, - / R. Crocus of antimony - parts 3
 { Super tartaric of Potash - parts 4
 Water - - - - - grs - 32.

When boiled a triple salt is formed. 5 grs in 5 tablespoonfuls of water, is given a total. Spoonful when vomiting is excited. I have known 44 grs give at once without producing vomiting. The dose for a child from 2 weeks to 2 months old, is 2 grs dissolved in 10 Teaspoons full of warm water. 1/8 of a gr is given when cold. for 1 year 1/4 gr. i.e. Dissolve 2 grs in 8 1/2 water, & give a teaspoonful every 10 minutes. I had one occasion to give as much as 15 grs at once to a lady. **Antimonial Wine.** was made of 9 caps of antimony dissolved in wine but this preparation is now laid aside. Dissolve 40 grs in 2 1/2 pints of wine. I prefer the watery solution.

Lecture 17

Tartar antimonii. Tart. emetic in fever I would not prescribe it before ~~counter emetic~~ venesection, it ought nearly in every case be preceded by v.s. Its effects in febrile cases have been supposed to arise from its exciting nausea.

Dr. Kuhn places it under the division of
 diaphoretics, & indeed it may be employed as
 a diaphoretic Diuretic & expectorant accord-
 ing to the method of administering it. In
Hemorrhages. It is beneficial when it de-
 pends upon febrile symptoms. In common febrile
 cases I prefer Opoeae. In small pox it is useful
 when the eruption is tardy. It prepares the sys-
 tem for the small pox. When I commenced prac-
 tice I generally combined it with nitre with
 the idea of its preparing the system for its in-
 jection. In Eruptive Diseases. It is generally
 employed. In certain eruptive diseases when
 the eruption depends upon a vitiated state
 of the stomach as, *Mitacaria*.
 when the diet is fish which causes it is
 peculiar an eruption. In this
 case an emetic is highly beneficial. In *Mitacaria*.
Mitacaria. the eruptions are pale at first
 but soon change to a red hue. In Leprosy
 & Venereal. It is a useful remedy in the
 opinion of many in my hands it succeeds
 the best. a solution of Tart. emetic. applied
 externally to the parts is occasionally found
 serviceable. In Dysentery. Tart. emetic
 has long been used. but it is very doubtful
 in its efficacy it is unfavourable. I agree with
 Dr. Chapman in preferring Opoeae. In Lux-
 ations. Tart. emetic is tart. Its primary effects
 in these cases is to relax the muscles. It is
 also a very good article in removing foreign
 substances lodged in the oesophagus and
 trachea as I have mentioned before. In these
 cases opium is superadded to the obstruction
 In Poisons. Tart. emetic is of immense im-
 portance. though I prefer a combination of

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Tartar Emetic and Sulphate of Zinc.
In Constipation. It may be occasionally
required by causing relaxation. In these
cases drastic purgatives must be resorted
to. In Tetanus. In Idiopathic Tetanus
it is highly beneficial, but in sympto-
matic stimulants must be resorted to.

In Consumption. an external appli-
cation to the breast made of common
cerate plaster, and sprinkled with
Tartar emetic. The virtue of this cer-
ate plaster is by the irritation excited
by the tartar emetic. In Chronic pain
of the breast this plaster is found to be
excellent.

I now come to the next
article Sulphate of Zinc. this is re-
garded as a powerful emetic a dose
is from 10 to 15 grs. it is peculiarly
adapted to those cases where poisons
have been swallowed. In these cases
the dose must be large as ℥ss. to ℥i.

I gave to a person who took $\frac{3}{4}$ of laudanum
℥ss and in this case by irritating
the fauces with a feather emesis
was produced, and the patient recover-
ed after vomiting three times.

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So far as I have seen I cannot agree
 with Dr. Cullen, that a large dose
 will prove noxious. a tablespoonfull
 of diluted mustard will promote the
 action of Sulphuric Lime. I have
 not employed it extensively. but
 I prefer it to Specaacantha and Tartar
 Emetic. In Pertussis. It is found to be
 beneficial. In Cynanche Trachealis
 (Croup) I prefer it to tartar emetic
 and Specae. In Dysentery, when
 febrile symptoms are apparent
 use venesection and afterwards
 Sulphate of Lime. astringents
 may also be used if requisite.

Pulmonary Complaint
 of its use in this disease I have no
 experience. Tartar emetic and
 Specaacantha I think de-
 serve a preeminence.
 Morely's solution is $\mathcal{Z}ij$ Sulphur
 Livi.

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Lecture 15.

Of Emetics. Copper. of the preparations of copper, I shall mention only one. The Sulphate or blue vitriol, is a prompt and powerful emetic. Dr. Haithman of this City uses it when opium has been swallowed. I consider it the best remedy in such cases. He has given a scruple at a time. The average dose is from 2 to 5 grains, but I have known half a grain to excite violent vomiting. Dr. Simmons recommends it in pulmonary consumption and by him it was employed in doses of from 2 to 20 grains, but with the precaution of dissolving every grain in 1/2 an ounce of water. Dr. Serres also recommends it as an excellent remedy in Phthisis. He gives it with Tartar Emetic or Ipecacuanha. (usually with the latter) grains each and he says he restored to health more people labouring under hectic fever with this than with any other remedy. Cullen considers the blue Vitriol as a harsh and unmanageable emetic. I have not found it either harsh or unmanageable, but a very uncertain emetic, sometimes in minute doses exciting vomiting; at other times large doses are requisite. It occasions less relaxation, than the antimonial emetics, on which account it may be useful in the feeble state of pulmonary consumption but on that account also it will not be so useful in reducing febrile action. In Proust it is used in the Southern States and in Polica Pictorum it was employed until Morely introduced the use of sulphas Zinc. white vitriol

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Lij. Vomit is composed of equal parts of tartar Emet.
and sulphate of copper.

• Mercurial Emetics. Calomel frequently proves emetic
but turbith mineral is the only article used to pro-
duce this effect, it is a sub sulphate of Mercury
of a yellow colour and not very soluble, which
will distinguish it from the neutral sulphate.
The dose is from 3 to 5 grains, and it sometimes salivates.
Cullen's observations on the mercurial emetics are
correct. We have better emetics and we have better
Sialogogues, and therefore when we wish to excite
vomiting, I prefer tartar emetic and Spica cubanica
and for a ptyalism use calomel blue pill or ointment.
To have presented you with a larger list of emetics
would have given me no trouble, but it is already
long enough, Indeed if it had been reduced to 2
articles. Antimony and Spica cubanica, the Ma-
teria elidica would not suffer any serious loss.
I think that he who expunges from the number
of remedies one useless article does almost as
much good as he who adds to the too long
catalogue of remedies or medicines.
Our next class is

Cathartics

They have been variously divided and classed
by different writers, but they are of minor impor-
tance. Cullen divides them into laxatives and
purgatives and this division is as good as
any. But it is remarked that most purga-
tives may be given, so as to prove laxative
and large doses of the latter may be given so
as to act as purgatives. Some of the cathartics
however are too irritating to be given in this
way.

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With Magnesia we cannot produce drastic purging. A powerful cathartic first stimulates the stomach, which is evacuated either into the duodenum - or by vomiting. It is correct to say that it operates on the whole alimentary canal, the gall bladder and liver being excited into action, the secretion from the salivary glands, and the peristaltic motion of the intestines is greatly augmented. Crises arise from an inordinate degree of action, which are intended to rid the system of the irritating cause. In purging the action of the bloodvessels is much reduced and this is one of the most powerful evacuants we possess. Dr Cullen thinks they do not take off the phlogistic diathesis of the system. I cannot say why he should think thus, for we certainly possess no remedy except venesection. So powerful in reducing tension & activity of the bloodvessels. As the absorbent purgatives exert a powerful action as is proved by their producing a rapid removal of morbid collections of pus or serum. Their effect is probably - sympathetic for bloodletting so as to produce an equal evacuation does not produce the same effect. In my opinion purging acts both by reducing the action of the bloodvessels and by a sympathetic action on the absorbents also. Like all other remedies Cathartics act or operate by exciting new action, which either suspends morbid excitement or alters it so as to be readily cured. Thus in diseases of the head they are useful independent of the evacuation they produce. In cholera they are frequently followed by sleep when opium has been given in vain. It has been observed that intense thought under the system ~~was~~ less liable to be affected by this action.

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Thus Newton and Pournafare while engaged in intense study, were not affected by the evil of fumes - Cullen says an afflux of fluids to the bowels produces a reaction from the head, and hence this case in apoplexy. The only explanation I can give is the incomparability of two actions of equal force at the same time.

Lecture 19th

I yesterday commenced with another class. Dr. Cathartes told you that some Physicians give them with the view of promoting absorption. I told you also that they act upon the gall bladder, absorbents, Pancreas, spleen &c. and that I consider them next to venesection. Doctor Physick had a patient who when he was in a healthy state, had daily two stools, now if he has a stool before 4 days he becomes affected (much). Cullen relates several cases, in which persons had no evacuation from their intestines, some not in 6. 7. 9. 11. 13. 20. 25. 30. to 45. days, in one 3 months elapsed without a stool. Several in which 2. 3. to 6 years have elapsed without an evacuation. Doctor Boile relates a case of a shoemaker, who had 2. or 3 evacuations in health, became constive frequently, belching his pulse as high as 78. to 80 all the remedies which were resorted to failed. Blistering and suppositories were used without effect. After dissection, the rectum was found empty (blow the structure) During his last days he could take nothing but a little toast water & even his stomach was not diseased the patient man was gummy.

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In such a case I would make a puncture —
above the structure to evacuate the faeces? —
In hernia the intestines are sometimes in a mor-
tified state without any bad effects to the patient.
Irregularity of the intestines produces many dis-
eases, as head ache, this disease is much
relieved by cathartics.

Symptoms when of inequity. Nausea. Vertigo.
Diminution of sight. Dr. Physick had a pa-
tient in which his vision was entirely lost
when in a state of constipation.
Women are of a more coarctive habit than
men, depends upon a debilitated peristaltic
motion. In Melancholia, there is a tri-
pud action of the intestines, in this disease large
doses are requisite. In comatose affections as in
Mania Phrenitis &c large doses must be used.
Dr Cheyne supposes the tripu action of the in-
testines in some diseases to arise from a torpid
state of the glands. Laxatives as Rhubarb —
Magnesia Sulphur &c ought in every case
precede the drastic cathartics, but when abu-
sed they become nearly inert. When the liver
is affected and the bile is in a vitiated state
Cafornel is the cathartic which ought to be used.
Sulivation is occasionally used in constipation.
In colics they are indispensable. I use an injec-
tion of 1 gill of starch or a mucilage of gum-
arabic and a tea spoonful of Laudanum or
gutta 100. This injection is found highly benefi-
cial in Colics. Colica Pectorum. Costus —
always attends, and occasionally precedes it.
Dr Cheyne's favorite remedy is Castor oil and
Rhubarb. I cannot say much of the benefits
of cathartics in this disease, as I have had
only ten or twelve cases in my practice, and
in those I employed them with advantage.

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In febrile affections they are given, when any ~~affection~~ vitiated substance is in the stomach as bile and are in such cases highly important laxatives are generally preferred. Dr. George Fordyce thinks on the use of purgatives in fevers I refer you. In this country practitioners employ them in all fevers. Cathartics are one of the most important remedies in fever.

In Intermittent. They are indicated. The bark may be given after emetics and cathartics are employed. In these diseases the stomach is generally inflamed, and I think it the cause of these diseases. In Yellow Fever, and Bilious Fever, there is generally an inflammation of the stomach similar to Gastritis. In these diseases the stomach is generally inflamed, and I think it the cause of these diseases. In the mild remittent fever, they are often the only remedies necessary. In continued fever (if protracted) they are useful. In Typhus Dr. Hamilton thinks them to be the best remedies adapted to the symptoms. I caution you against the abuse of this class of medicines, in this as in all other diseases always attend to the state of the system. The symptoms of Typhus are

I refer you to Dr. Hamiltons work on febrile affections

Lecture 20

At my last lecture I told you that fever arose from local inflammation.
In Intermittents cathartics are proper remedies

before the bath is administered. In Typhus. The late professor Barton recommended cathartics. In this disease universally I believe they are highly useful when indicated. In this as in all other diseases attend to the state of the system. Physicians quailed at the idea of giving cathartics in this disease, were led by an idea of their debilitating the system they supposed the disease arose from debility, which I cannot believe the cathartics will increase by proper management.

In Eruptive diseases purging is an important remedy in these cases. Small Pox. generally use in the commencement. In Erysipelas. The Professor of Surgery will testify that cathartics are highly useful.

In Scarlatina. Cathartics when indicated are important. A late writer recommended venesection. In this city cathartics have been universally used. When the inflammatory diathesis is apparent use venesection, when the patient is costive use cathartics. Large doses are generally required. An Ecdymatous state of the body which sometimes occurs, in these cases they are highly useful. In Measles. They have long been recognized as useful. gentle laxatives are frequently common. Cathartics put an immediate stop to them. In Chronic Eruptive. None of them are benefited by cathartics. In Ophthalmia. They are of great service. Venesection cathartics & the antiphlogistic diet are the remedies used. Leeches are of great service in this disease.

In Morbus Coxarius. are highly beneficial sometimes inflammation runs on to suppuration. Doctor Physick uses them daily & has generally succeeded in putting a stop to this disease with evan of tartar & Saltp.

The limb to be at rest, patients thus treated, are known to become confident. In Rheumatism M. beneficial. In chronic Rheumatism, when inflammation appears, venesection ought to precede the use of cathartics. Gout, by the first Physicians was supposed to be a modification of Rheumatism. The causes are quite different. They are different diseases in my opinion. This disease was supposed to be incurable. no disease is incurable. In this disease purging has been too much laid aside. In regular Gout, there is inflammation, principally confined to the joints, are in such cases highly beneficial. The pain is sometimes transferred to different viscera, as Stomach, Lung and head, generally called retrocedent gout. In such cases cathartics may sometimes be omitted and venesection resorted to. Cathartics have been known to increase and bring it on when the patient was apparently free from this disease. venesection is far safer than cathartics. In Retrocedent Gout the feet become swollen in such cases cathartics are beneficial.

Variety of specifics have been sold by Empirics for this disease, we have no specific for any disease, except mercury in syphilis which is the only one.

Can Medicinale has been sold as a specific. Its composition is unknown is generally supposed to be highly beneficial. In Regular Gout it relieves when given in the evening. The patient is much relieved by it in the morning. Sir Joseph Bank was much relieved by it. This medicine has caused terrible effects, when given in an over dose, it kills immediately, an Irishman who swallowed an over dose, was nearly killed by it, if no aid would have been present. Death would have been inevitable.

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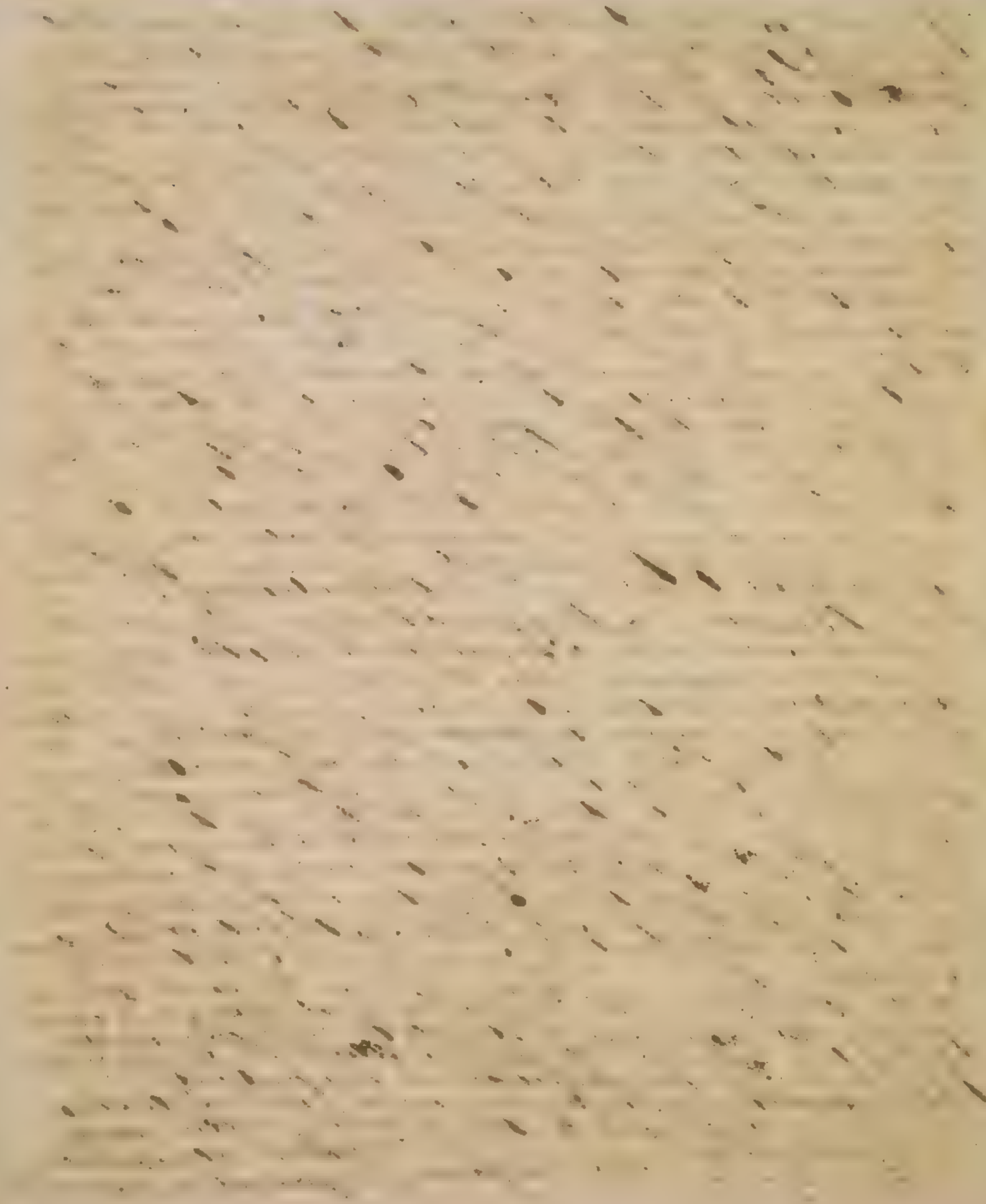
Colchicum autumnale. Is an important medicine. this plant deserves your attention. Gentlemen, I have not proclaimed to the world a specific for the gout (*colchicum autumnale*) or clean-dout saffron. Hexandria Trigynia Monopetala bulbous root England 4 of *colchicum* 8 of shungoe Lisbon wine dose 3j. He states that in 40 cases he has found this remedy effectual. I am not aware that any want experiments have been repeated I can say nothing of the medicinal virtue of the plant, from my own experience nothing can be more contradicting than the statement of Physicians respecting the efficacy of this medicine some representing it as a ~~active~~ other inert. Mr. Murray of Göttingen emals which eat it. There can be no doubt of its being an active remedy and as ~~an~~ want experiments prove that it is a powerful medicine in Gout, it affords ample room for future investigation and for a thesis. There is exhibited a plate of the engraving.

Lecture 21

Cathartics in all cases of local inflammation as hepatitis, Splenitis, are valuable. Practitioners have made an exception to their use of purgatives when the inflammation is seated in the throat and chest I question the propriety of this distinction I suspect the debilitating effects of a diarrhoea at the close of Phthisis have led to its adoption. But I would as soon purge in the anginous affection and even in the early stage of consumption as in any other inflammatory disease even it not for the preference which it properly given to section and in all cases it will be found a valuable auxiliary to the depletion of the lancet. In what Cullen has denominated *Serous* Diarrhoea purging is a very valuable remedy. In Apoplexy active and frequently repeated cathartics are important.

They act first by depleting from the arterial system & by producing what is denominated a wound sign from the head, and I may add by increasing the activity of the absorbents. In those cases arising from disease of the alimentary canal they are evidently the most useful. Palsy regies imitating purges. Hydrocephalus Internus, is an inflammation of the brain terminating in effusion, it requires venesection and purges again and again & all desection, which I have seen (and they have been numerous) evince it to be a disease of high inflammation. Some venture to tap a child with this disease though the fontanel considerable serum was discharged in a few weeks the operation was repeated, the symptoms were much relieved by these successive operations but eventually died, and I have found the brain hollow and like the meat of a cocoanut. Purges repeated day after day, form a prominent & successful treatment of this disease.

In Mania & Melancholia. Purges are much used. In Chorea St. Viti. they are highly recommended by Hamilton and his description of the disease, merit your attention as it goes far to prove the propriety of purges. Sydenham cured it by venesection and purges. Hamilton by a continued use of purges, even to the completion of the cure. He commenced he says with caution from the idea that continued depletion would be followed by debility, but in this country it had long been an established point that cathartics or diseases of the alimentary canal are less debilitating than the disease itself. which results from the disease. we have always employed active purges, without fear of debility, whether under the Chorea or purges must be resolute and persevering in the practice on his patients. attendants will interfere with other articles and bring disorder to the remedy. after salutary changes take place the regular stimulus of cathartics will be necessary to prevent a recurrence of the disease.



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Honies may perhaps at this time also be useful
 or necessary and of these I shall speak hereafter
 Epilepsy. In this disease the arterial and nervous
 system are affected and the bowels are also con-
 stipated in it as has been proved very satisfactorily.
 In the latter case purges almost will effect a
 cure, but in no other case. Dr. Physick had
 a case of apoplexy from a tumour on the thumb
 which was cured by extirpating the tumour, with
 Dr. Rush I frankly confess I have no adequate
 ideas of this disease. It is right however to use
 those remedies which experience has found useful
 and of those especially when the alimentary canal
 is diseased. purging is the most important.
 Head ache. Here 1st the nervous 2^d the arterial
 system and 3^d the alimentary canal are in-
 volved. In the first sort the heart and ar-
 teries act naturally, fever frequently producing
 the second and 3^d in the stomach or
 constipation of the bowels produce the third
 variety of head ache. This affection differs as
 to the seat of the pain, being sometimes on the
 forehead Occiput over the orbits and over the
 whole cranium as to the kind of pain being some-
 times dull heavy and stupifying, sometimes
 sharp and lancing, gnawing and some-
 times the sensation of separating the sutures
 patients say their heads will split. The pain
 is intermitting or continual and the head
 is often sensitive to the touch. In Chronic nervous
 headache the extremities are cold the eyes are
 intolerant of light, vertigo and frequently nau-
 sea are symptoms, I have been particularly
 in mentioning this variety because authors
 have not bestowed on the subject that attention
 which it requires. by far the most frequent cause
 is indigestion, it is also produced by too little
 sleep, by obstruction of the catamenia, and by
 blows on the head the first object is to remove
 the remote causes and vomiting and purg-
 ing are important remedies. It is necessary
 to preserve the bowels from constipation.

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I have cured chronic head ache by ordering my patients to breakfast and sup on ^{rice} milk and milk instead of coffee and tea. Laxatives are generally necessary I use Rhubarb and Magnesia, the latter especially in cases of acidity of the stomach. In obstinate cases purges repeated daily for weeks are necessary. Sometimes venesection is necessary and in chronic cases comes. — In my own opinion the heart and arteries are affected in all diseases called nervous. Hysteria. In this disease the heart and arteries the stomach and bowels are all affected Doctr. Rush considered it as misplaced Gout, which he compared in males to the cloth of their dress, and in females to the clasp. They were whether the diseases are similar or not, the practice recommended in gout is equally beneficial in this disease. Hysteria occurs in males and in females when the uterus is unaffected, and frequently a symptom of other diseases. In Yellow Fever. it was common I never knew that disease terminate fatally when hysterical symptoms occurred. The treatment during the paroxysm is venesection and purging at least these are my remedies. Sydenham and Cullen think them of little consequence but Hamilton properly considers the disease as connected with the alimentary canal. He considers it as a tonic & remedies subsidiary. I wish you to remember that I never recommend one remedy to the exclusion of others, it would be like attacking an army with infantry while we have artillery and cavalry at hand. In Hysteria. Tonics may be necessary at the close, as cathartics in its early stage.

Lecture 22

In my last I mentioned to you, that Dr. Hamilton strongly recommended cathartics in Hysteria. He told you, tonics were sometimes useful at the close of the disease.

I have found them useful with warm bath, in
 Arterial haemorrhage & In Hysteria (sim-
 bath), and the use of *galeopitrius* are highly
 useful. In Tetanus from wounds they cannot
 be highly useful - but stimulating medicines
 as *opium* must be resorted to. In *Ascites*.
 they are useful such cathartics which cause
 an increased evacuation of water from the In-
 testines, were called *hydrogogues*. These are the
 best. They promote the action of the absorbents
 and empty the blood vessels, are the best, of
 Cream of Tartar, Sulphate of Magnesia &c.
 A derangement of the stomach producing many
 diseases, as I have before mentioned. In Females
 many diseases are produced by a derangement
 of the *primæ viæ*. As *Chlorosis*. (retention of the menses)
 Symptoms. *Heaviness*, listlessness, to motion and
 fatigue, on the least exertion, palpitancy of the
 heart, pain in the back, loins, and hips, flatulency
 and acidity in the stomach and bowels, and many
 symptoms of *Dyspepsia*. **Cardialgia**.
 - on an impaired state of the stomach. depending on
 are the proper remedies. In *Chorea* of the
 have told you that the bowels are always in a tor-
 pid state. the long continued use of purges will
 remove it. The patient should always be informed
 of his case. There is a slow-unmistakable level of this
 - den, where there is great emaciation, yellow belly
 - ge. Costiveness and other symptoms of indigestion
 often mistaken for worms. Dr. Hamilton calls it
Marasmus. Purges every 48 hours, pure air -
 and articles of easy digestion.
 In acute diseases they are given as a part of
 the antiphlogistic plan (to induce action) and in
 chronic diseases they are given as an alternative.
 In Constipation they are useful. In protracted in-
 flammation of the knee joint, In chronic inflamma-
 tion of the eyes, Cathartics continued for months
 are highly useful. In many chronic cases -
 Costiveness takes place very frequently in old age
 child purges are to be used. Age must and
 Roasted Apples are to be used as a diet
 I shall divide cathartics into vegetable and
 mineral

Vegetable Cathartics.

Mustard. There are two species the *Sinapis alba* & *Sinapis nigra*. To obtain its cathartic virtues use the bruised seeds, generally a table spoonful or an ounce in weight is the dose which taken once a day keeps the belly regular, that is producing one equal stool every day. Sometimes however this is not enough, and for this purpose the dose must be either increased or taken twice a day. The seeds pass entire in the stool, and its operation is the urinary passages is commonly excited by its promoting the secretion of urine. Dr Boerhaave recommends it as a cathartic in chlorosis and in Intermittent Fever having some stimulant properties. In Palsy, it may be given as it is insulating he also recommends it in Gout. It has one advantage i.e. by not leaving the intestines in a torpid state after operation. **Manna.** This substance though afforded by several vegetables is usually obtained from different species of Ash Tree, particularly those from *Fraxinus*, *Quercus*, *Retundifolia*, which are cultivated in Sicily and Calabria. It is procured by spontaneous exudation more copiously by incisions made into the bark of the trunk of the tree. The juice which exudes soon becomes concrete. When it is dried slowly the manna becomes more dry and white, and of a fine somewhat granulated firmness what is named cake manna. When the exudation is more copious the juice is of a darker colour, and concretes into a soft unctuous like mass less pure than the other. The history of manna is drawn up by Dr Hill, he considers it as a true Gum. Chemists discovered it also to be soluble in alcohol, which shows it to be of a resinous nature. It is soluble both in water and alcohol. We receive several colonies of this article but their medicinal properties are the same. When dissolved in acetic acid the solution evaporated a crystalline mass is formed.

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Gullen considers it virtuous, not greater than sugar. Mannay considers it as greater. The dose is from 1 to 2 ozs. It was formerly given to pregnant women, but it produced colicky pains, gripes and crotia. It is generally combined with senna, honey, sugar might also be added. Tamarind they are principally given in tamarind water.

Lecture 23.

I shall now commence with another vegetable cathartic viz. *Juglans cinerea* which grows in every part of the United States. *Juglans cinerea*. white walnut. The bark of this tree especially of the root (*Buttum* tree) will excite a purge. its cathartic property resides in the inner bark, is extracted by decoction is prepared in the month of June. In the Southern States it is used in intermittent fevers. It is always used in dysentery the dose of the extract is from 10 to 20 grains or even 30. This extract is often very cathartically prepared by the vulgar. It ought to be prepared by the apothecaries. *Podophyllum Peltatum*. a leafy Apple. mandrake. This plant is very common throughout the U.S. the fruit is excellent and by many thought delicious. The leaves are poisonous. Some told it has less power and gripes more than jalap. Some place it on a root with jalap. It has been used in all cases when jalap has been employed. It is used in Intermittent and Remittent fevers and often in Dropsy. Dr. Barton says the root possesses some narcotic property. The root is the part of the plant which is used as a cathartic, in a dose of 20 grains. It is most advantageously used in combination with calomel or crystals of tartar. The root is also used later as an anthelmintic, and as such it is used by the Cherokees and other Southern Indians. The best time for gathering the leafy apple for medicinal purposes is the Autumn, when the leaves have turned yellow, and are about falling off.

Recinus Communis, Palma Christi. This plant grows in both Indies, Africa and the south of Europe. It also grows luxuriantly in the Southern States of America where it is now becoming an article of export. It is of speedy growth and in one year arrives at its full height which seldom exceeds 20 feet. The seeds of the capsules of this plant are facinaceous, with a considerable quantity of unctuous matter intermixed. They afford by expression or decoction an oil which is used in medicine in this country under the name of castor oil. When obtained by decoction of the bruised seeds in water, it is purer and less acrimonious than when obtained by expression. It is one of the most ancient cathartics. It is one of the safest and mildest. It has been said to give the tone of the bowels less than any other cathartic. It is particularly suited to cases of constipation, and even to cases of spasmodic cholera, and in various other cases of the bowels (affections). In the West Indies the dry belly ache, or colica Pictonum. I have never found it heating or irritating to the rectum and therefore have found it sufficiently well suited to hemorrhoidal persons. It is good when any foreign substance has been swallowed but it is better to use none, as where metals have been swallowed as copper, owing as it is supposed that an affinity will take place between the oil and the copper. In common cases, Dose ʒi for an adult, for a child of 3 months old a teaspoonful for 5 months ʒss. wine or brandy is the vehicle in which it is occasionally given but I prefer coffee. It is also taken floating in fresh perermint water. It ought not in inflammatory cases be given in wine or brandy, as it would be like adding fuel to the fire. Some coffee as a vehicle it destroys the taste of it. Some use it in combination with other articles as.

For the Rheaginous Mixture

℞. Recini.	ʒij.
Succ. albi.	ʒij.
Sol. P. Arabie.	ʒij.
Essential oil.	6 grains

A little Laudanum may be added particularly in cases of dysentery though it is much better to give it with coffee. Some say rancid oil purges of and grips more than recent.

This is incorrect I have given it in a rancid state and never have I seen these effects. *Neum Chlorum* has been recommended by J. L. Chapman as a substitute for castor oil. This is incorrect there is a material difference between these two oils.

There are certain bowels complaints in children in which I have found it highly beneficial it is also used with glysters its properties are similar to castor oil water melted butter is useful in bowels complaints Oil of butter is useful in cholera it often relieves gripings. *Cassia Senna*. *Senna*. It grows principally in Upper Egypt from whence the leaves are brought (and are picked from the stalks) to Alexandria. It is also described by 3 kinds. He supposes the alexandria the alexandria & India. The first is preferred as there are not so many ~~leaves~~ stems mixed with it. The leaf is the part of the plant in which the medicinal virtues reside Water and Alcohol alike extract its properties. It was first used by the Physicians in Arabia it is frequently combined with manna with cambrins or super-tartrate of potash and as its taste can be covered with sugar, or manna it is a purgative very frequently given to children. It is usually given in the form of watery infusion 2 drachms being infused in 4 or 8 oz of tepid water generally with the addition of a few coriander seeds to cover the flavour and obviate griping. it has succeeded in some cases of *hemia* when other cathartics failed.

Lecture 24.

Cassia Mailandica possesses virtues similar to the *senna* and may be substituted.

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Rhubarb *Rheum Palmatum* besides the *Rheum*
palmatum two other species the *Rheum undu-*
latum and *Rheum compactum* are cultivated
 with the view of obtaining their roots to be
 used in medicine, nor is any considerable
 difference, it is said to be observed, between the
 roots obtained from any of them, when it is prop-
 erly dried and preserved. The best rhubarb is
 that named Russian, or Turkey, it is in
 small pieces with a large tuber in the middle
 of a lively yellow color, with streaks of white
 has a small peculiar and somewhat aromatic
 and a bitter slightly stiptic taste. Another
 kind is imported from the E. Indies or rather from
 China in larger masses more compact and
 hard heavier, friable than the other and having
 less of an aromatic flavour. It yields part of it
 to water by infusion. Alcohol likewise dis-
 solves a considerable proportion of it. and di-
 luted alcohol appears to be its most powerful
 solvent, dissolving all its active matter. (is a gum
 resin) It appears too to contain a portion of tannin
 as it gives a deep colour with the salts of Iron.
 Some degree of stipticity is always evident in this
 medicine, and as this quality acts when that of
 the purgative has ceased. So in cases of diarrhoea
 when any evacuation is proper rhubarb has
 been considered as the most proper means to be
 employed. The Chinese rhubarb is supposed to
 possess more astringent quality than the Turkey
 plant. Dr. Hill and Lewis have given a good history of the
 plant. The qualities of the roots are that of a gentle
 the purgative and indeed so gentle that it is
 often inconvenient by reason of the bulk of the
 dose required which in a child must be from
 ʒi a dram to a dram when given in a large
 dose it will occasion griping as other purga-
 tives do, but it is hardly ever heating to the
 system, or showing the other effects of the more
 drastic purgatives. It seems to have no debil-
 itating effects on the bowels it always leaves the
 intestines in a vigorous action. Rhubarb is for the
 most part too bulky to be used in the form of pills
 Dr. Barton supposed it to be supposed of diuretic
 qualities from the idea that it coloured the urine.

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The dose of Rhubarb as a cathartic is one scruple or ʒi
 chachin, it was the favorite remedy of Dr. Baillon. See
 it in combination with calomel in the proportion of ʒss
 grains of Rhubarb, with 4 or 5 grains calomel.
 It is usually used in the form of infusion. Rhubarb ʒij
 boiled in water with a few fenugreek seeds is a very good
 remedy in colicky complaint of children from acidi-
 ty of the stomach dose a Table spoon full.
 The several preparations to relieve colicky pains
 give ease when Laudanum does not. I can there-
 fore recommend it strongly although I do not give
 Laudanum. The Toasted Rhubarb possesses a more
 astringent but less cathartic power or property.
 (Toasted Rhubarb is made by heating Rhubarb in a spoon
 then cooling in diarrhoea &c. it) Rhubarb is appli-
 ed to wounds and to indolent ulcers. It acts as a
 stimulant. In habitual constipation it is much
 used. It keeps the belly regular for which it is
~~much employed~~ (frequently) is by no means infe-
 -er as the most astringent quality in ready to un-
 -wind the purgative has done but I have found
 that the purpose mentioned may be obtained if
 the rhubarb is chewed in the mouth and no more
 is swallowed than what the saliva has dissolved
 In that case it appears that the astringent quali-
 -ty is not largely extracted and therefore the ca-
 -thartic will operate as required, and I must remark
 that in this way employed, it is very useful to dyspeptic
 persons, I prefer the use of pills made with Rhubarb
 and Ginger to dyspeptic patients as it acts as
 a stimulant & is dysenteric. It is much employed
 particularly in combination with calomel
 In Gout it is an important remedy (article) In
 Scurvy it is a very valuable article it is generally
 combined with calomel I have seen good effects from
 this combination, in this disease
 In diseases of children I use the rhubarb in the
 following manner

R. Rhubarb ʒj.

Magnesia ʒj.

Ol. of anniseed ʒij (or any other
 essential oil)

Aqua — ʒij

Have it well agitated before you use it. I prefer the dried Rhubarb
 which is in common use I have used it very often and have reason
 to be pleased with it. Rhubarb with senna is good in
 Gout.

The Magnina relieves the Colicky pains of infants very effectually. Give the distillate. Some water & lemon-juice of Pagan arabic some mild cases of Spasmodic Convulsions Salap. **JALAP.** Is a perennial species of convolvulus. It is a native of Mexico and Vera Cruz. It is brought to this country in thin fragrant bark, which are covered with a blackish wrinkled bark, and are of a dark grey colour internally marked with darkish or blackish stripes. Jalap contains a resinous and a gummy matter. It purgative quality appearing to reside in the former as it is extracted by alcohol while its watery infusion is comparatively inert. The spirit is its proper menstruum. The resin thus separated is an acid inflaming matter, which when into the stomach purges & thus is purgative, but it is rendered mild by being divided by a Tritum with any hard powder before it be proves purgative. (entire Jalap) and in large doses proves a strong one, but as it is given in powder, the previous mildness renders the entire Jalap a mild medicine than the resin taken separately.

The medicine dose is ℥ss. when triturated with crystals of tartar it will operate in smaller doses than when taken by itself. And at the same time very moderate and without griping if triturated with hard sugar. It becomes in moderate doses a safe medicine for children, which in this form they will readily receive, as the Jalap of itself has very little taste. Jalap may thus be rendered into a safe. It may however be being given in large doses and especially by being joined with calomel be rendered one of the most powerful purgatives, either as a hydragogue, or as an anthelmintic, and if given in combination with more safety than any other drastic purgatives. It is extremely useful in the hip disease in combination with creosote of tartar, given daily. Anticolic Powder

R. Jalap — 1. gr.

Rhubarb — 11. gr.

Acid of Jalap — 1/2 gr.

In pills.

R. Jalap. ℥i.

Cream of tartar ℥i.

given daily in the hip disease a teaspoonful for a dose until it operates.

In Bilious Cases Jalap and Calomel are highly useful. Dr. Rush employs it with great success in these cases.

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Lecture 25.

Aloe. a native of Asia Africa and America, is a concrete resinous juice. There are 3 kinds 1st Aloe Socotrina 2^d Aloe Barbadosis. 3^d the foetid Caballine or horse aloe, these differ in their qualities as also in their sensible properties or qualities. The Socotrine is brought from the African Island of Socotona and is considered as the purest, it is small pieces of a reddish brown colour, is in scarce not an atom is at present in this city. 2^d the Barbados, or hepatic aloe, which resembles the liver in colour, it is darker than the former, and more bitter. 3^d the horse aloe, is intensely bitter & extremely nauseous, and is weaker in its power. The taste of all the kinds of aloe is intensely bitter, the odour is disagreeable, they consist of extract and resinous matter, the former being in large quantity. The latter is obtained by the action of alcohol has little smell or taste. Diluted alcohol dissolves all the active matter of this concrete juice.

Aloe passes through the stomach and small intestine, without much irritation and principally acts on the large intestine, and especially upon the intestine rectum, it has been supposed to have a tendency to occasion hemorrhoids, an opinion for which there does not appear much foundation. I have known instances of its safety even in hemorrhoidal persons, and I am persuaded the hemorrhoidal affections are produced by a costive habit, much more frequently than by the use of aloe. It is slower in its operation than any of the other cathartics. It probably acts by stimulating the muscular coat of the ~~stomach~~ intestines, and thereby increasing the peristaltic motion. It remains 16 or 12 hours before it operates. It is also supposed that its stimulating effects being extended to the uterus, it has been regarded as a purgative to be avoided during pregnancy, and on the same hypothesis it has been supposed to exert an emmenagogue power. In a dose of 1 or 2 grains it acts as much as if a larger quantity were taken for the different preparations I refer you to codes dispensatory. When you hear of the elixir proprietas it is nothing else than the tincture of aloe with ethyn, and not the elixir of Paracelsus.

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It is prepared in the following manner. R. Symp^{3ij} 13ij

Albes^{3ij} 3ij
Alkohol^{℥ss} 1℥ss

Gambogia. Gamboge. Gambogioides. E. Indies
This Gum Resin is obtained by exudation from incisions made into the trunk and branches of the tree. It is brittle of a lively yellow colour and resinous fracture has a taste bitter and acid water and alcohol partially dissolve it and its solution in alcohol becomes turbid on the addition of water. It is much used by painters, it acts both as an emetic and cathartic. It is one of the most drastic purgatives dose 2 to 4 grains but 3 grains may be given with safety. Cullen gave it alone in divided doses 3 or 4 grains rubbed with sugar every 3 or 4 hours in Dropsy. Mr Murray could not destroy its property by baking it with tartar. If it is used it should be combined with calomel or jalap. In cutaneous eruptions, it is found to be useful. In tinea capitis most effectual medicine, for expelling the fungus of the scalp. I cannot say much of its efficacy in this case.

In Dropsy it has been used without success. I have no doubt that when combined with calomel, or cream of tartar, it is a very valuable remedy or medicine.

Scammony. (Syria) Is obtained by cutting the root of convolvulus scammonia and insinuating the juice which exudes, by exposure to the sun into air. It is in small fragments of a blackish gray colour, having little smell and a bitter subacid taste. The resinous matter is in greater abundance than the gum. It was used by the Greeks and Arabians but it is inert. It was a large dose will be inert. It operates so violently, while it causes bloody stools and sometimes inflammation of the bowels griping &c. Cullen's objection to it is strong one is that it is not found pure, which is a disadvantage. **Colocynthis.** Is obtained from the cucumis Colocynthis. The fruit of this plant used in medicine is the dried spongy or medullary part of the fruit, it is white soft and porous and has the seeds which are comparatively inert mixed with it. Its taste is intensely bitter. I have not used it, if I should use it, it would be in the manner of combination with jalap and calomel. It is one of the most drastic purgatives so much so that its operation is not readily regulated when in combination with calomel & jalap it is given for mania and coma also in obstinate constipation. Dose from 3 to 8 grains.

Heliborus Niger, *Melampodium* Black Heliborus radix
Austria Italia. called *Melampodium* - from *melampo*
 who used it he cured the daughter of King Croesus who
 was affected with mania. It is not much employed
 its active power seems principally to reside in its mi-
 nor part. it is a drastic Cathartic. In Dropsy it
 has been employed as a hydragogue cathartic. It
 is usually under the form of spirituous extract.
 The *Tinctura melampodii* was strongly recommended
 in amenorrhoea by *St. Med* as an Emmenagogue.
Heliborus alba. white Heliborus. is said *St. Med* too
 much distrust often followed its use.
Momordica Elaterium. With cucumber. is
 the most violent of all the cathartics. *Hose* in grain
St. Senar revived it and uses it in Dropsy especially
 hydrothorax. I shall now speak of

Mineral Cathartics

Calomel. *Sublimas hydrargyri*. *Mercurius Hydrargyri*
Mercurius Dulcis
 By triturating the corrosive sublimate with 3 parts
 of quicksilver and 4 of corrosive sublimate, when
 the quicksilver is cleared (when no more globules appear)
 wash it in hot water the corrosive sublimate will
 be removed, and the calomel can be obtained as it
 does not dissolve. you will learn from the process
 of chemistry how to prepare it. Dose for an adult
 6 to 20 grains 10 grains is the medium dose. *Doctor*
Antist a day of Lancaster took 3 grains of calomel
 it purged him in two weeks afterwards he took 80 grs
 which did not purge him more (nor produced the
 most gripping than the former dose) it is one of the so-
 stimulant cathartics we can employ. it probably acts by
 stimulating the mercury glands of the intestines
 and increasing their discharge as the stools are li-
 quid. Calomel administered at bed time will operate
 in the morning. In the Southern States large doses are
 given in bilious fever. I prefer 20 grs of Calomel & 10
 grains of Rhubarb as has been before mentioned

Form the

R/ Note 3i

Calomel 8 grains - antimonial powder
 Tartar Emetic 1 grain

Q. J. J.

Given every 2 hours until it operates, in children we
 cathartics can be distinguished so well as this, may be given
 in mucilage or a piece of bread, do not give it in
 water as it falls to the bottom. Dose to a child of 1 month
 old is 2 grains if it does not operate it must be followed
 by a desert spoonful of castor oil. of 1 year 5 grains
 of 10 years 5 to 8 grains. In early life I prefer castor
 oil, castor oil or magnesia I prefer in children under
 1 year except in croup, 2 grains every hour until it
 operates. Dr. Kuhn one of the most successful prac-
 titioners the profession can produce, has given as
 much as 20 grains to children, with perfect safe-
 ty in croup.

Lecture 26.

At our last lecture I spoke of Colatium, it has lately
 been supposed to form the essential ingredient of L.D.
 Can medicinal it is however less narcotic, and I
 have already told you that the colchicum autumn-
 nale, approaches nearer to the celebrated gout ym-
 edy. Dr. Everard Home has lately taken up the sub-
 ject, and from him we may expect some interesting
 intelligence. Since lecturing on the Can medicinal
 I advised it in a case of gout to a delicate constitution
 two ʒi. or half the usual dose at evening, it in-
 duced sleep and in 5 hours she awoke with violent
 purging and griping. The medicine to use her
 language starched every pore and produced besides
 purging diarrhoea, dysphoria & complete relief.
 Sulphur is a laxative which has long been used in medi-
 cine. dose 1 or 2 drachms. It is supposed to act less on the
 large than on the small intestine. That it does not ex-
 cite the secretion, and hence it is used in constipa-
 tion arising from torpor of the alimentary canal.
 These cases are frequently attended with hemorrhoids
 and here sulphur is particularly useful. Doct^r
 Chapman has found it useful in treating a capitis, the
 remedy which I have employed with the best suc-
 cess is a mixture of butter and salt. In Rheumatism
 gout and Dysentery we have other better cathartics
 but in mild remittent and intermittent fevers, it is
 much and are with success ʒi. with molasses is a much
 better mode. Then the combination with brandy, as recom-
 mended by Dr. Geanger.

Dr. Peter Physick and myself have frequently employed
 Sulphur in these cases with much advantage. Com-
 bined with cream of tartar it is a popular remedy
 much used in spring, I have already mentioned the
 impropriety of giving cathartics, or any other remedy
 in *hiatth*. *Maghenia*, is generally combined with
 a small proportion of carbonic acid. It has not
 however the properties of the carbonate, which is crys-
 tallizable salt, it is a mild laxative, which is crys-
 tallizable forms a good medicine for children, with
 cream of tartar it forms a more active remedy, with
 we wish to correct acidity it is useful and useful when
 been employed in dyspepsia, Sept and more lately
 in calculus & *Secretal salts* increase the sedu-
 tory, some are mild others more active of the class;
 there are well adapted to empty the blood vessels, and
 consequently are of use in all febrile diseases, of these
glauber salt (*sulphur soda*) is the most useful, and
 produces abundant secretion from the intestines
 with little sickness or griping, remember the effe-
 rences salt has, but the strength of the crystals
 there is one objection to this salt which is its nau-
 seous disagreeable taste, which is in some measure
 obviated by combining it with vinegar, lemon juice
 cream of tartar or the *Seltzer water*. 1 oz *glauber*
 salt 1 gr. tartar emetic divided into 4 equal parts
 and one in two hours will act as a purgative and
 diaphoretic and is useful in fevers, *glauber salt*
 should be dissolved in boiling water, and when dis-
 solved scalds with lemon juice and sugar as with
Seltzer water *Sulphate of magnesia* is as bitter and
 nauseous as *sulphur soda*, it differs not very great-
 ly from the same I employed it in the *scilla* cases
 with an effect after calomel when it refuses to act
 readily. *Tartar Soluble* or *Rock salt*, is not
 so nauseous as active. It is much employed in
 France and agrees well with their inert practice
Cream of Tartar is a useful and agreeable cathar-
 tic and forming with sugar and water a pleasant be-
 verage, useful to assist the operation of other pur-
 gatives, or when a milder operation is desired, and
 purge, so every firm antacid operation is excited with
 fallow and mint it is useful, when we wish for a seden-
 tes use of a cathartic, for a long time. In *goit* it is
 inadmissible. In *dropsy* it is a valuable remedy
 it may easily be given to children with lemon. with
 form of *lemonade*. Saturated with potash it forms sol-
 uble tartar which is not much used, being a feeble
 remedy, it has diuretic properties. *Phosphat. Soda*
tartar like salt it is used by the french in *brutis*
 but it is too nourishing to be employed as a remedy in our diseases,

I have now finished with cathartics, have taken the liberty to strike out of the materia medica a few observations on the combination of medicines. I will make a few observations on the combination of medicines. Cathartics are most frequently used in combination with one another. Ancient remedies were very complex consisting of ingredients, some of which were inert, and others interfering with the object in view. A modern Physician was at the very first led to many remedies, supposing that the disease might choose for itself, then is existing a prescription of *Rexams* containing 400 different articles. Modern Physicians have gone to the other extreme of prescribing only a single article when in combination would answer better. Dr. Hordyce has written well on this subject also, and Rhubarb occupies an exaltation of recent matter while Glauber's salt produces a watery stool. Now it is evident were we to give both these effects, that both remedies will be better than either. If the stomach is affected with acridities give magnesia, and if we wish to a certain extent an evacuation is the effect of the remedy or not give Rhubarb, and the colour of the stool will determine the point, there can be no hesitation in ascribing to the truth of these observations. I will now only give more examples. Salap & other cathartics when alone produce nausea and vomiting, but given with mint they produce no disturbance of the stomach. It is absurd to combine articles together unless we know they will not interfere with each other in their operations and it is important to combine those medicines, which experience has shown to act better in a state of combination.

Emmetta. act on the large Intestines & sometimes the small intestines are excited sympathetically. The French use them to remove costiveness, and consider the apparatus an essential part of the furniture of the chamber. When costiveness is only occasional they may be used but not in habitual constipation. For an infirm the following answers every purpose. common salt in lasses, and great oil each a little spoonful water 1/2 pint. They are sometimes used to assist a draught, to expedite the operation of other cathartics, in some cases of haemorrhoids, and show where active have been given in vain, they have sometimes been used with success. Tobacco is commonly employed in desperate cases and under circumstances which will be mentioned by the professor of surgery. The tobacco glyster is formed by adding 3i to a pint of water or 1/2 pint of it at a time. Syringes are most economical though bladder are frequently employed.

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Lecture 27.

Diuretics, are those medicines which promote the urinary discharge, as to the precise mode of operation there is much difference. They act in two ways, 1st by exciting the urinary organs, 2^d by invigorating the power of absorption. The general effects of diuretics are sufficiently evident. They discharge the watery part of the blood, and by that discharge they indirectly promote absorption. Dropsy or the disease in which they are principally employed, are they are adapted to every form of it. The disease can also be removed with less injury to the patient by exciting the urinary discharge, than by any other method. The success of diuretics in dropsy is however very precarious, sometimes none of them succeed, sometimes one acts more powerfully than another though in this there is no uniformity. We are the causes of this variety of operation not understood. In general it is obvious that where a strong predisposition to the disease exists, or where it originates from organic affections of the liver and other chyliferous viscera, no great advantage can be expected from the mere evacuation of water by the action of diuretics, it is only in those cases where an accumulation of fluids has taken place from diminished absorption or some similar cause that they can be expected to effect a cure, it is accordingly happens in practice that an increased discharge is effected by the exhibition of diuretics, and still the dropsical swellings are not removed or if they are they speedily return again. It was formerly the practice not to allow any liquids or only in small quantities in dropsy. Hippocrates enjoined his patients to abstain from watery liquors, this rather prevented the action of diuretics, the remedies that were employed for the cure of this disease (dropsy) hence the practice that was formerly adopted of diminishing the allowance of drink, is nearly exploded. Hippocrates and his followers are undoubtedly wrong, but I by no means think it proper to fill the stomach with watery liquors. Water has in some instances alone cured the disease, when it has been taken in large quantities. Water impregnated with aromatic spirits, as, Ger, whiskey, &c. is useful. Water impregnated with acids of the promotes the urinary discharge.

Many cases even have occurred in which mineral waters have acted as diuretics, and effected a cure in dropsy. The action of diuretics is, promota dependant on the state of the vessels of the skin. The excretion of urine is in an inverse proportion as to perspiration. If when a mis- cure of this class has been given, these vessels have been stimulated by external warmth, its function is rather returning to the surface and sweat or diaphoresis takes place. But if the surface is kept cool the diuretic effect is more certain or more decided. In that state of the surface, usual diaphoretics may be thought to act as diuretics. Walking over a cold floor, cold applied to the feet, cold drinks, cold applications, will cause an increase in many discharges. Diuretics promote the action of diuretics, as is evident when a great deal is taken off it must pass off by some of the excretories or perspiration urine &c. Diuretics have been likewise used in calculus affecting with the view of preventing at least the increase of the calculus by rendering the urine more watery, and to lessen plethora or to check profuse perspiration. The use of diuretics is to increase the quantity of urine of use in Gonorrhoea and other affections of the urinary passages by lessening the accumulation of the urine, which exerts pain from its action on that part, when they are in an inflamed state. The repairing from diuretic drinks, coarsens the vessels of the kidney, to extract and thereby prevent the effect of diuretics. Dr. Humeau has divided diuretics into 3 classes (viz) Incitantia, Relaxantia, Refrigerantia. I see no advantage in this classification. Relaxantia may be placed into 2 classes. 1 Those that have a relation to the absorbents & those that have a relation to the urinary organs. 2 Those that have a relation to the force of the circulation exerted as a phlogistic and in that way promote absorption of the humors. I shall divide diuretics into 3 divisions, 1st. The cooling and laxatives as the neutral salts, 2 Stimulating as the Balsams, Capsaica & Sedatives or narcotics as Opium, digitalis. There is hardly one that is exclusively diuretic. Many of them are diaphoretic, which when excited diminish the diuretic effect. But we have many which though diuretic (not wholly) produce it in a very considerable degree. The secretion of urine varies very much, in some cases very little urine is secreted and in some cases as diabetes the secretion is very great. In the former state, it is subjected to the powers of animalization and its original properties are changed but when it becomes excreted and is removed beyond the sphere of animal power, as in instance when it arrives at the bladder, it is then subjected to chemical reunion and is regenerated. I am convinced of this, as no substance in its primitive state has been found in the blood.

But frequently in the excretions as in the milk urine &c. In addition to this there seems to be a direct communication between the stomach and bladder, otherwise how could the urine of 70 or 80 persons, often taken into the stomach, void, & come from that the stomach contracts by the excretion, forming a cavity, appearing to be the part that has that direct communication, portion of a dog and giving him drink of stimulants which pass in 20 minutes to his bladder. The test of the excretion was either alkali or potash, it assumes an orange colour when mixed with it.

Lecture 28.

Diuretics are given in pulmonary diseases. Catarrh of the bladder is given for this purpose. In pulmonary asthma (with effusion of the chest) they are given as diuretics and sedatives in these cases. In cystitis they are useful in diluting the urine and lessening its acrimony. In nephritis they are given with the same intention. Doctor Murray states a case of potash on his list of diuretics. It is so noted that I wish to see it expressed. Potash Potassa. & this is one of our best saline diuretics, and I am surprised that Dr. Murray should consider it too inert to be employed in dropsy. It is given alone or in combination with other articles. From 8 or 10 grains gradually increased. It is improper to begin with large doses, but before copious diuresis can take place, it is necessary to give 3 or 4 drachms in 24 hours. The action of the medicine on the kidneys is perceptible when smaller doses are given. But to obtain its full effect in dropsy it must be used more freely. I presume it is neglected of this, and I regret which led Dr. Murray to consider it so inert. Doctor Rush's favourite Antimonial Powder was an excellent prescription. & the gi-

Swedish into 8 Powder { Antimonial Powder 1 gr
Calomel 8 gr
It is sometimes proper to omit the calomel when the gastro-
enteric system is disturbed for it 4 grains of Precipitated
Instead of Dover's Powder. Dr. Physick and myself have used
10 grains nitre, Opium 1 grain, Spices 1 grain. I think it
a better febrifuge than the combination of sulphate of Potash
a common practice in this country is to give nitre in solu-
tion. 1 lb to a quart of water each 100 grains of which
contains 7 or 8 grains of nitre. And this is useful when
diuretic & cathartic are indicated. Super Saturated of Potash
is soluble in one 30th its weight of water. It has been high-
ly recommended by some. Mercurius and Dr. Chapman
Dr. Anselm Haller relates that by its use he cured 33
out of 45 cases, and if his cases were like the generality
of cases of dropsy his success was very remarkable. For by no
other medicine have I ever known such a proportionate number
of cures.

As a cathartic I have no doubt it is useful in the febrile form of dropsy, and I also believe that it produces some effect as a diuretic. Doct^r Murray observes there are still modes of giving it on as an electary the other dissolved in a large quantity of water. It is more usual to give it dissolved in water when purging is indicated, and whenever I have used it I have found large watery evacuations with the stools. I have never known it to prove diuretic unless it purged at the same time. It often fails when others succeed and this remark is applicable to every other of the class. Soluble tartar in small doses is much used by my medical friends by every 2 hours. By Dr. Physick it is considered the most diuretic salt we have. Sulphuric spirit of nitre. Nitric acid 1 lb Alcohol 3 lb is added gradually distilled a week. The medicine is extremely volatile and while distilling it the receiver must be surrounded with ice. It is easily decomposed which renders it proper to employ it in a recent state, it may however be purified by adding lime water and a 2^d distillation. This medicine is frequently employed as a diuretic, without regard to its operation. In Europe it is customary to give it in the early stages of fever and I have known ill consequences to result from the stimulating power of the medicine of diminutive action, when the skin is dry tongue parched and secretion stopped and other symptoms of dropsy, are not relieved by bleeding and antiphlogistic remedies. I have known it employed with bad success. I give 30 grains of Spirit of Nitre and antimonial wine, equal common remedy as a diaphoretic, I generally em-
 ploy 30 gutts of the former and 20 of the latter as le-
 gers of medicine recommended from 2 to 4 drops.
 The medicine is so stimulating, that I would use it less freely 20 gutts as a diaphoretic 30 drops as a diuretic 5 drops for a child, in the fever denomi-
 nated break bone I have seen its anodyne effect. There is much pain in the loins and back, and it is then
 difficult to distinguish it from rheumatism. After resection and purges the remedy is very ef-
 fective immediately of use.

[illegible]

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Lecture 29th

Digitalis Purpurea. The petals are not always purple
and hence Dr. Baier proposed to call it *digitalis of-
ficialis*. It flourishes best in a dry gravelly sandy
soil. The leaves are better named *acrid* and with
some odor. It is to be gathered when in blossom.
The stalks of the leaves ought to be rejected. Dried by a
moderate fire, powdered and kept in well stopped bottles
when the petals are whole the leaves are said to be less
active. This is the most powerful diuretic we possess.
Besides which it has other properties being a strong
narcotic. no medicine so quickly and powerfully reduc-
es the pulse as this, but I have not considered the effect
of medicine on the pulse as a criterion of their seda-
tive or stimulant power and besides given in doses of
from 1 to 3 grains it accelerates the pulse for a few
minutes it is therefore a stimulant different from the other
It first quickens the circulation produces heat at the stomach flow of saliva succeeds
sensation of heat at the stomach flow of saliva succeeds
by nausea and depression of the pulse. In large doses
it produces anxiety nausea vertigo syncope coma and
convulsions & death the pulse is variously affected and
so is the stomach. There is one caution in the use of this
remedy it is sometimes given several days without any
sensible effect when the narcotic operation is over-
-ly and powerfully produced, and for this reason we
must be cautious not to administer the remedy too
frequently or increase the dose too fast. The remedy too
the flow of urine is by no means a constant effect.
and the singularly the influence of potassium on the
pulse after using *Digitalis*. Simply the leaves fresh
powder, and commonly rubbed up with nitre, 10 grains
nitre to 2 of foliage. It is safest to begin with 1/2 grain
It is also given in pills but this way is not so safe.
when the infusion is prepared, use 1 drach to 3 oz. water
boiled to 7 ounces, strain and add 8 oz of spirit to
prevent fermentation give a table spoon full 2 or 3
times a day. It possesses no advantage over powder
Tinctum P. *digitalis* 8 ounces diluted alcohol
dose 20 drops. *Harwin's Tinctum* 2 ounces *digitalis*
8 ounces brandy dose 10 to 15 drops. Some and many
others prefer *Harwin's Tinctum*

The decoction and extract I have never seen used, most approved writers forbid the administration of digitalis, often than once in 5 or 8 hours. It is a good rule to give it 3 times in 24 hours and great attention must be paid to patients urinate. I do not know that it ever proves diuretic without affecting the pulse. The dose is to be increased very gradually, and when its effects on the stomach, kidneys, and bowels are observable, the dose is to be diminished if it purges one Candianum. This remedy was introduced into regular practice by Dr. Sydenham. His remarks, that the diuretic effects of the medicine do not depend upon the nausea, or vomiting it produces, and that they are prevented by purging. Since that time it has been used by Dr. Sydenham, Currie of Chester, Harmer, Hamilton of Suffolk, and several others which have reported variously, yet the same objection may be made to the other diuretics, I have often employed it in anasarca and with success. In ascites there is generally some primary organic affection which renders all diuretics useless. In hydrothorax I have employed it with some advantage but I am decidedly in favour of nitre calomel and squills in this disease notwithstanding the extraordinary encomiums of Hamilton on the Foxglove. I have in several cases been obliged to change this remedy for calomel and squills. In all cases of dropsy the system requires our first attention. If the pulse be too full, bleeding and purges are to be used and digitalis is not admissible. Even stopping himself did not use (under such circumstances) to the remedy until he had previously employed evacuating remedies. He has pointed out the cases in which it may be used with success. It is said to be adopted to anasarca, following scarlatina I have in such cases used the saline diuretics especially the osman of tartar. It will not universally act as a diuretic. Digitalis so more frequently than any other. 2nd It does not sleep from bitter diuretics. this is not so. I have frequently known others to prove very beneficial, when digitalis had been given without advantage. From the effect of the remedy on the pulse, it is to retard the circulation, not to be expected. Venesection has long since been supposed an unnatural remedy, and as a substitute digitalis, has been resorted to. It has therefore been used in hemorrhages & if the accounts are creditable the medicine is valuable.

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but whoever has seen much of hemorrhage knows it is difficult to determine the efficacy of the remedies or to know whether they are useful or not. The power of digitalis in hemorrhage I doubt not but confess that it is not the proper remedy and if ever we follow the indications of nature it is when we bleed in hemorrhage for getting rid of the excess of blood. I do not altogether condemn for giving a system of blood vessels are sufficiently empty and the feeble action reduced and the patient continuing liable to a return of hemorrhage under such circumstances, perhaps might be useful but it ought not to be employed except under these circumstances and even then I should prefer Ipecacuanha and acetate of lead it has been considered most useful in uterine hemorrhage and hemoptysis. Dr. Chapman states he has seen bleedings from the uterus, increased by this remedy which will reduce the circulation and give tone to the uterus itself. This is not the effect of digitalis. This observation of Dr. Chapman is extremely valuable. Dr. Hamilton & Ferris employ it in inflammatory diseases but it is now laid aside. I look with astonishment at the attempts which have been made to substitute digitalis for the lancet, in pleurisy and other cases (diseases) in which the efficacy of bloodletting has been for ages established. Give me one remedy of undoubted efficacy and for every disease and I ask for no more.

Lecture 30th

In diseases of the thorax digitalis has long been considered as useful. In asthma attended with anasarcaous limbs, I always suspect effusion in the thorax, I have found digitalis a valuable remedy. 1 oz Tincture Tolu & 1 oz Laudanum 1/2 oz digitalis in an alcoholic solution. Dose from 10 to 40 gutta 3 times a day besides this there are other cases of asthma in which digitalis is decidedly beneficial. It was recommended by L. S. Leivey and Physick has followed his practice with advantage.

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To show you the necessity of caution I omitted to mention the following case which occurred in my practice of Phthisis, and we concluded to give her Digitalis in small doses, she was accordingly directed to take 5 grains of the tincture in the morning 3 at noon & 5 at night. This nearly produced death, her pulse was reduced from 112 to 45, and symptoms similar succeeded. The Phthisis Digitalis was long considered a specific, but such views have been shown visionary. In the medical and Physical Journal of Edinburgh for 1799 & 1800. much was written on the efficacy of Digitalis in consumption. Dr. Beddoes declared it cure ague. Sydenham made a similar remark of horseback exercise yet the diseases are as frequent and fatal as ever. This shows us the necessity of fixed principles in medicine. In this country the medicine has been used but with less advantage than the accounts of the English practitioners most extensive practice has given a very accurate definition of consumption. Cough difficult, of breathing, hectic fever and sometimes pain and purulent expectoration, Chronic catarrh as those cases in which a small quantity of blood is spit up, is not genuine pulmonary consumption. In this country the rapid change of temperature which is greater than any where produces violent catarrh or pleurisy, which is frequently followed by symptoms of Phthisis, but they heal without difficulty, and hence it is supposed the lungs were not ulcerated. This supposition is founded on a belief, that all cases of the lungs are incurable, which is very erroneous we know that injuries of the lungs heal as quickly as any other part of the body. They often suppurate after injury, as from inflammation, but as soon as the pus is evacuated they heal, and the patient continues well. The professor of surgery has described to you several cases illustrative of the curative power of the Lungs.

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I have known a bullet lodged in their centre for years without any inconvenience. Having assumed to convince you, that suppuration of these organs is not necessary to prove fatal. I next observe that the diseased action of the lungs in pulmonary consumption, is peculiarly different from that of healthy inflammation. The tubercles are sometimes to scrophulous ulcers, but perhaps not exactly like them. The incurable nature of the disease does not depend on an impossibility of healing even tubercles. The misfortune is that while one heals, others are in a suppurating or forming stage, and accordingly we find in consumptive subjects, tubercles varying from the size of a pin's head to that of an apple. Some cicatrize, showing the possibility of healing them, others ulcerating or containing pus. It is the hectic fever which they give rise to, that destroys the patient, just as in scrophulous ulcers up by the local affection terminates the patient's life. There are cases in which no tubercles exist, but the lining membrane of the air cells produces inflammation, and suppuration produces the symptoms of consumption. Sauvages makes 20 species according to their kind and seat of the disease. but I prefer the arrangement of Bayle who confines the term to organic affection of the lungs. tubercular consumption is far more frequent than all other kinds, there is no reason to suppose with Rush that they result from or are the terminations of common Phlegmonous inflammation. We know its termination are always different from tubercles. I believe the disease is the fever, arising from sympathy between the constitution and the suppurating cavity, not as Cullen and others would teach you from the absorption of pus. The indications are to cure the ulceration and for this digitalis does nothing. but to relieve some of the symptoms the medicine may be used with advantage the pulse being 120 it is peculiarly useful in reducing it to a natural standard. The quickness of the pulse is merely symptomatic & the removal of it will not cure the disease.

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Besides minding the pulse, Dr Duncan states it is used in some cases as a diuretic especially in Catarrhal consumption. He also correctly observes that in Phthisis the reduction of the pulse by digitalis is more difficult than in any other disease. In cases of Chronic Catarrh, when symptoms arise similar to those from tubercles, the digitalis is a very valuable remedy, especially when venousness is contraindicated, and the use of the remedy is exactly proportional to its effects on the pulse. In these cases a convenient and useful way of giving it, is with carbonate of soda. In incipient Phthisis it is useful, when we can carry out depletion remedies so far, but after ulceration takes place, it is useless, I will go farther and declare that it is absolutely hurtful, by impairing the tone of the digestive organs. But I shall be told the remedy has been used in all its stages, with advantage, as it, among these that of Dr. J. J. is the most extraordinary he states that 44 of 77 Patients were cured, and 20 only died. That if he cured any thing but chronic catarrh in this proportion is incredible. Dr. Rush tried the remedy in several cases and considered it a mere poisonous weed. Dr. Barton employs it, & concludes that he has not found it of much use, as a permanent cure of Phthisis, except in the cases I have mentioned. I believe the disease in its advanced state necessarily fatal, and when large abscesses are formed and the patient can lie only on one side we may consider it a desperate case. In the Hospital & Alms House digitalis has been much used. I have seen many cures of chronic Catarrh, but none of pulmonary consumption. as a co-operative in incipient Phthisis and in that arising from pneumonia inflammation it proves very useful. Digitalis cannot cure consumption. In speaking of consumption I told you that tubercles are very analogous to the abscess which Dr. J. J. describes, as occurring without pyrexia. I come to the conclusion that digitalis is no specific in this disease, and cautioned you against it, and trusting to this or any other specific. Epilepsy as far as I have seen is hereditary it has been incurable.

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I never knew Digitalis useful. It has been used in *Stmania* with various intentions, some to evacuate or promote the absorption of serum in the brain, others to reduce arterial action. The best treatment of *Stmania* is that of Dr. Rush, and Digitalis forms no part of it. In *Hydrocephalus* it has been used, and Dr. Chapman says in two cases he found it of service, but it is too uncertain and variable in its effects, as to require the greatest nicety in employing it. In its effects it bears but little analogy with Opium, which even in a small dose produces some effects, but unless we employ Digitalis to a certain extreme, the medicine will produce no effect at all, and as soon as it produces a sensible operation, on the heart or arteries, or on the brain or stomach we must stop. There is another solid argument against using it. In *Hydrocephalus* the disease requires more prompt evacuations and we have not time for it to reduce the pulse. It is more permanent in its effects than other narcotics. In *Rachitis & Gout*, it has been employed but I cannot, imagine how the remedy is or can be useful. You see I am by no means partial to the empirical use of Digitalis and the extraordinary encomiums which have been lavished on it, should always teach you to be on your guard against trusting too much to the enthusiastic praises of new remedies. I cannot speak of its external use from my own experience. Soliman has many analogies with Digitalis, but is less active as a diuretic in the Barter employs. 1 oz to 1 pint of boiling water adding 1 oz of Spirit and gave 5t guttae 3 or 4 times. I have no experience with it do not like to see it used as a diuretic. *Scilla Maritima*. Squills. The medicinal application of Squills as an emetic have been already stated. Under this article are to be considered its powers as a diuretic. Dr. Haller says it has no specific action on the kidneys, but stimulates all the secretions. Its primary operation is stimulant, but by its excretion it reduces the pulse very powerfully. Its diuretic effect is not inferior to that of Digitalis. In every form of dropsy it is a valuable remedy, but I have succeeded better with it in *Hydrothorax*, than in the other forms of the disease probably because it is less compatible with organic affections. The experience of a number of my medical friends of high standing, are also in favour of its superior efficacy in *Hydrothorax*. I employ it in substance from 5 to 3 grains

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I have generally given it rubbed up with nitre, which facilitates the pulverization. It is occasionally given in pills with gent. ammonia or with castoreum. I generally commence with 1 gr. on the first day & gradually increase the dose, but have never in the emphysematous squibs been obliged to give more than 4 or 5 grains at a dose, some recommend it in larger quantities, in order to excite vomiting. Dr. Hume gave 10 gr. with 10 gr. nitre and declared that its evident effects on the stomach and bowels is necessary to produce its diuretic operation. Cullen advanced an opposite opinion. I have never seen squibs successfully diuretic unless nausea was produced but I cannot decide whether it was necessary or a mere evidence that the medicine was employed to a sufficient extent. Squibs are sometimes given with Opium, as when purging is prevented, or griping or when it is unattended. But the most important combination of this remedy is with calomel. Cullen was opposed to this combination, because calomel purges, which he considered incompatible with its diuretic operation. But the most extensive experience has settled this point and proved that in dropsy especially, in cases of gastric obstruction, it is superior to all other remedies. If it is necessary the purgative effects of the remedy is to be restrained by opium. Phlogism is sometimes excited by it, and frequently produces beneficial effects. I generally give 1 gr. with each dose of squib. But in some cases, only a half grain is to be given. Dr. Murray supposed the calomel useful by stimulating the absorbents, so as to favour the direct diuretic operation of Squibs. But if such is the case there is no need of the latter remedy, it is unnecessary. The order for every diuretic must first evacuate the blood vessels and this evacuation excites the absorbents to take up water from the cavities. I have been so well pleased with the remedy, that I do not hesitate to recommend it to you, and am happy to state that in hydrothorax, it will more frequently cure than any other remedy. This combination is further well adapted to the treatment of dropsy connected with frequent is, with obstruction of phlegm in the mercurial preparations or catarrhs, purging as this impedes the diuretic action of the squib, mercurial friction may be substituted.

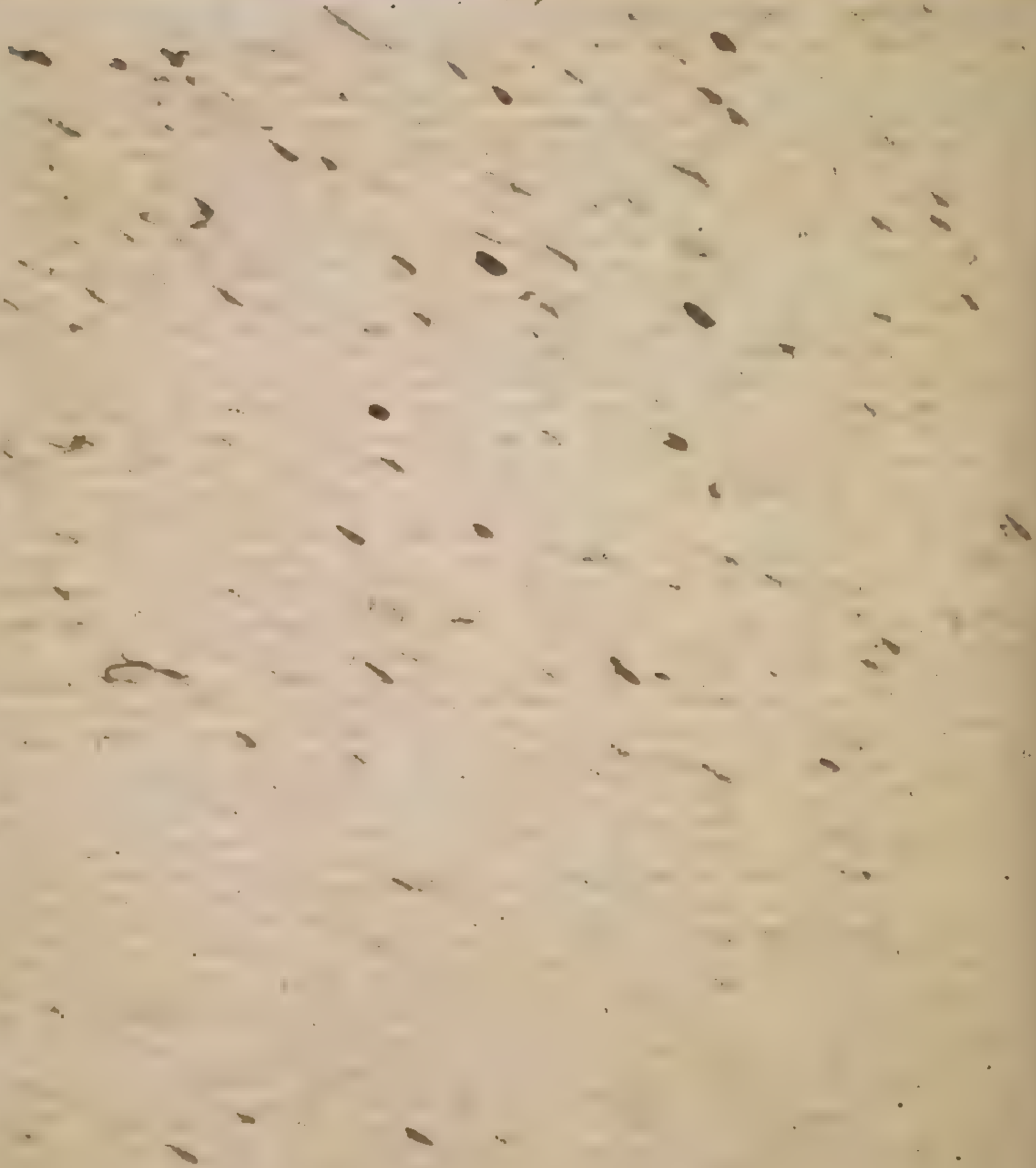
Copaivera Officinalis. Balsamum Copaiba. Balsam of Copaiba. Is a resinous juice obtained from a tree in some parts of South America. It grows to a large quantity from incisions made into the trunk. The juice is clear and transparent of a yellowish pale yellow colour, an agreeable sweet and a resinous taste. It is usually about the consistence of Oil or a little thicker when long kept it becomes nearly as thick as honey retaining its clarity, but has not been obtained to grow as a solid, as most of the resinous juices do that from Brazil is the best as it never grows opaque unless adulterated; Soluble in Alcohol & promotes secretion, and communicates to the urine a violet colour. Dose 30 guttae 3 times a day, after meals or before meals. It is a ~~disorder~~ ^{remedy} in regard to the system, but it is not so much owing to the medicine, because in many cases it will wear itself off. we should therefore not deviate from the golden rule but attend to the state of the system. If there is inflammation with fever. Venesection sometimes purging is always necessary. So is the antiphlogistic regimen. I conclude the use of Copaiba is ~~indicated~~ ^{indicated} with other remedies. a ~~disorder~~ ^{remedy} in the early stages of the disease, when given as I have stated without regard to the system I have never seen, Order ~~reduced~~ ^{reduced}. Give 30 guttae 3 times a day, or 40 guttae twice a day, with Gum or Sugar or Molasses. Additional Remarks. Give the Balsam Copaiba, early in mild cases I have given it as early as the third day, purging has alone cured it, given with sugar or molasses.

Lecture 31st

Oil of Turpentine. Is a resinous juice from the Pine ~~tree~~ ^{tree} is of a slight pungent taste, slightly soluble in alcohol. It acts on the kidneys.

1777

Rose & N. gatta, with Sugar or Melasy, I have good
 as much as a teaspoonful as a dose, the dose of the
 arabic this article is often used when the capillary
 fails, given 3 times a day. *Polygala Senega*. This
 root of the plant used is a medicinal plant which
 grows wild in north america particularly in Vir-
 ginia & Pennsylvania. This root is usually about
 the thickness of a little finger, variegated, bent and
 contorted, and appears as if composed of joints, whence
 it is supposed to resemble the tail of the animal
 whose name it bears (Rattlesnake). The bark is the
 active part of the root. It tastes at first acid of:
 1793. Dr. Sanguet of Virginia, recommended it in
 the bite of the rattlesnake hence its name.
 Dr. Bristow cured one case of universal dropsy
 in the Penn. Hospital. Dose from 10. to 20. grains
 and gradually increased if the stomach can bear
 it. The infusion is made in the following manner
K Senega Zi. Boiling water 1 lb. leave it to
 stand 1/2 an hour & a child of 5 years the dose
 is a desert teaspoonful. 3 to 3℥. to an adult
 it has been much used in Pneumonia, but can
 not do much good unless preceded by much
 depletion. Dr. Archer of Maryland first used
 it in *Cynanche trachealis*. He finds it very in-
 convenient to exhibit to children. When it acts as
 an emetic or cathartic, it does good upon general
 in Rheumatism, it has been used to relieve stom-
 ach from blisters, I have relieved strangury from
 blisters, with barley water or gum Arabic water
 than with this remedy. *Plum Petroselinum*.
 Parsley. Every part of this is supposed to be a pur-
 eful diuretic. The decoction of the root is the
 part which is used. The seed is equally good, it
 is used in dropsy, and it is well adapted to the
 ordinary suppressions of urine. It effectually re-
 lieves the suppression (ordinary suppression) of
 urine. It effectually relieves the suppression of
 the blisters for this we should use a decoction of
 the plant. *Scierites* from the Animal Kingdom
 Cantharides. Meloe. Vesicatorius Cantharis
 Spanish Fly. This insect is collected from the
 leaves of certain plants in Spain & Italy to which
 it adheres, they are first exposed to the vapour
 of vinegar, and are then dried in the sun. They are
 of a very lively green and yellow colour.



Have a faint unpleasant smell, and a taste slightly
acid, the active matter of Cantharides inflaming and
excoriating the skin and is used as the basis of the common
venicatories, it appears to have a peculiar determination
to the urinary organ, as even from the external applica-
tion stranguary is sometimes induced, and a small
dose of the Cantharides internally administered act
with much violence on the kidneys & bladder pro-
ducing inflammation & a discharge of bloody urine
inflammation of the bowels which in excess delirium
& death. The Tincture is made — R Cantharides ℥i.
Alcohol ℥ss. Stir & digest for 7 days & strain
through paper. Dose 5-10-15-20 guttae 3 times a day
and gradually increased. In Tetany hydrophobia
it has been used. In Chronic Gonorrhoea & Leucorrhoea
it is useful. Dr Robertson used it in the following man-
ner in those cases. R Cantharides ʒss water ʒvss
Dose a table spoonful 3 times a day. gradually in-
creased. when the matter becomes thicker, he
may suppose that it commences to produce good
effect, but if it does not we must go on increas-
ing the dose. I have known a practical physician of this
city to give 1500 guttae in 24 hours, the consequence
was inflammation of the genital organs. In gonorrhoea
particularly exciting another disease it was found use-
ful. Dr Hottel used it in Dysuria or did also Dr
Barton. It acts as a diuretic in Dropsy. In Scabity
it has been said to be a specific. (M.M.M.C.S.)
all works on Malacia claudia and the
can a class of Lithiastrophies, these are defined such
medicines as break down or destroy the stone in
the bladder, I am sure such medicines are rarely
if any, to be found. in consequence of which the
Messrs & Barton, have thought fit to alter the
title. I cannot think of retaining the term Lithiastrophies
which tends to mislead the student, & shall therefore
substitute the term anallithy, these I consider such
articles, as relieve or alluviate the symptoms of cal-
culus, but in some instances prevent its formation
by
Theory of the disease, in which they are used. when
any solid body passes into the bladder, it serves as
a nucleus and a nucleus ever existing, of different
lamina, thereby forming a calculus, or stone.
Calculi are rarely formed, without a nucleus &
a drop of blood falling into the bladder caused by
a blow, wound, &c. any extraneous accidently falling
in forms a nucleus. The discovery of modern
chemistry progressed far, in discovering the substances

of which calculi are composed, the principal sub-
stance is a uric acid, mate of ammonia, Phosphate
of lime &c. (vide Thompson's chemistry) The order of my
arrangement, now leads me to speak of the signs
or symptoms, which denote the presence of calculi.
1st From this is not always present, pain in the region
of the kidneys, frequent discharge of urine, with
vomiting, Swelling and retraction of the testicles, pain
in the urethra with sudden suppression, followed by a flow
of sabulous or mucous matter, accompanied with
pain in the perineum, and lastly, it is proper to
observe how we are to distinguish, between this &
diseases of the prostate gland, in the last, riding &
gestation are borne without experiencing either ex-
cruciating pains, excited in calculi. This is no pain
so tolling as that of calculi. & Scintillating, of the
prostate gland except the passage of gall stones
from the liver. the existence of calculi may be some-
times known in children by the form of the pro-
prium to handle it continually, which causes an enlarge-
ment of the part. Calculi lays in some instances
the foundation of hectic fever, here he related
two patients who died of hectic fever in whose blad-
ders calculi were unexpectedly found, the pain is
imputed more to the state of the urine than to
the peculiar form of the stone. Calculi are found
of various substances as before mentioned, many of
which are capable of being dissolved, by certain
agents out of the body, ~~And~~ the probability of
that we have certain medicines, which will dis-
solve them partially in the bladder. though their
effects were internally administered, they will dis-
solve them, but will not act as Lithontripics.
potash which is frequently employed in calculi
never have I seen it dissolve the calculi it pali-
ates the symptoms, a case related by Sir Everard
Home, a patient who took potash in large quan-
tities, was relieved by its use, yet it did not act
as a Lithontripic, finally the patient died &
on dissection, 350 calculi (small) were found.

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They are certainly serviceable when formed, & of preserving their formation, when the system has a tendency to ~~change~~. more recent investigations have still further extended our knowledge of this subject. it had always been known that urinary calculi are not of uniform appearance and quantity. Dr. Wollaston's researches have proved that they are of very different chemical constitution and his experiments have been confirmed by others; he has described 4 kinds of calculi 1st uric acid calculus, 2 Phosphate of magnesia & ammonia of fusible calculus 3 Phosphate of lime or mulberry calculus 4th Phosphate of lime or bone earth calculus. Particular Urolithic. It is probably owing to want of care in the selection of these remedies & ignorance of the substances forming the particular calculi, that we have been hitherto so unsuccessful in our attempts to dissolve calculi, it is not doubtless whether we possess any such remedy, but I am inclined to believe that we possess any such remedy as strictly speaking are without exception: my conviction rests upon 2 grounds 1st we are vents in the calculi out of the body. 2nd some of these solvents, reach the bladder without any peculiar action on other parts of the body. No substance enters the system, or circulation in its primitive state, it is subjected to the power of animalization, and its original properties are changed but when it becomes an executioner and is removed beyond the sphere of animal power, as for instance when it arrives at the bladder, it is then subject to reunion & is regenerated. I am convinced of this, no substance in its primitive state has been found in the blood. mine &c.

180
 Section 32nd

Principle Antilithic. Gasteric juice. Doct^r Murray found by experiment that the gasteric juice of a dog is stronger than that of any other animal, after repeated injections into the bladder of a calculus patient in the Penn^a Hospital, it was followed by the ejection of large pieces of Calculi (quantities) & sandy matter. The Gasteric bladder remains occasionally as here in the case of sand was found in the urine (vide his Therap^{eu} on calculi). Alkalies have long been known as powerful remedies in the symptoms of Stone. Howeroy and others they may be given freely to patients, becomes sufficiently alkaline, to dissolve stone out of the bladder. The difficulty is the stomach and bladder become so affected by these remedies that we are obliged to discontinue them before the solution is accomplished, perhaps they act by changing the lithic diathesis and by their evacuation. I do not approve of chemical remedies, which have effected the use of alkalis, may saturate the excess of Phosphoric acid, which is necessary to keep the time in a state of solution, and hence he considers the soft extent of calculi, the use of alkaline remedies as the effect of additional prescription, and not of solution. I do not concede to this reasoning, because it rests on unfixed data, and is opposed to the relief which is experienced from their use, one of the latest chemists, found in urine alkali is a disengaged body, and also phosphate of lime in a disengaged form, by showing that their elements do not unite according to the established laws of chemistry, or rather chemical action, that the bladder is not a retreat or a laboratory of chemical decomposition.

Potash. Experience confirms the efficacy of potash in calculus complaints. The dose is from XV. to XXX. grains, twice a day. The pure alkali in a state of solution (aqua Potassa) has been given in a dose of 15 to 20 drops morning and evening increasing this gradually as far as the stomach can bear.

I must not forget to mention that it causes
 nausea. A solution of potash may be saturated
 with carbonic acid, and given in this form the super-
 carbonate of potash water already noticed affords the
 most effectual palliative in cases of urinary Calculi the
 relief obtained from it, appears to arise from its neutralizing
 the free acid in the urine, and thus rendering it less irri-
 tant. From 1℥ to a ℥ is taken in the course of the day
 and it has the important advantage that from its mild &
 reluctance. The sub-carbonate of potash is also used as
 an antilithic in a dose of 15 to 20 grains 2 or 3 times a
 day. But the super carbonate is in my opinion far su-
 perior to the sub-carbonate. The super carbonate of pot-
 ash when used in the form of solution ought to be kept
 in bottles well closed. Dose 4, 5, or 6, wine drops, full a pint
 containing 8 or 10 grains. A case related by Sil. Curran from
 a patient who took potash to a large extent, was relieved
 by its use, yet the alkali only acted as antilithic. The patient
 died of the disease. 35℥ Calculi were found (small calculi)
 if the alkali would have acted as a lithontriptic the
 patient would not have died of calculus. Soda, like
 potash is used as an antilithic should be given in wa-
 ter super saturated with carbonic acid, or it may be given
 in pills in order to do this the soda should be
 first effloresced, and in combination with Gum arabic,
 or other substances proper for forming a mass. Soda is given
 as a lithontriptic it acts principally on the alkali
 it contains, it is nauseous, inelegant and inefficacious
Aqua Calcis. This is a very good palliative, it should
 be given in large quantities, not less than a quart in a
 day in calculous complaint. Mrs. Steady of London
 who had a nostrum for calculus was given a high
 premium for the disclosure of the composition by the
 British Parliament. The basis of this nostrum is com-
 position is found to be lime, of the lime water, a wine
 glass full in milk should be given at a dose. This is
 the best mode of administering it. It is particularly bene-
 ficial in all cases of nephritis combined with affection
 of the stomach, or dyspepsia acid eructation &
Magnesia. As a purgative earth, the history was
 given of it when speaking of cathartics.

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Dr Brand introduced this remedy, his object was to pre-
 vent the formation of uric acid in the kidneys. When
 this abounds a 3^d night & morning is useful, given
 with lime water. The Brand's cases were gouty per-
 sons some of whom had tried alkalies without
 relief. They are subject to excess of uric acid, which
 is manifest in their urine & in particular and by the
 other symptoms of gravel. But gravel is a very frequent
 complaint & one for rarely has any connection with
 calculus they occur in very different ages & under
 different circumstances are an affection of every
 sex, I believe that in gouty or gravelly cases may-
 naria is an extremely valuable medicine, but that
 in calculus, & here I still believe the alkalies
 are preferable. Mineral Acids. Nothing more
 decidedly proves the difference of composition of
 urinary calculi than that articles of wholly
 opposite properties, should alike relieve the dis-
 ease. Muriacic Acid. of this the dose is
 XXX gutta at the commencement increase to 10
 3 times a day in one case, the patient was cured
 after taking 3^d if the sediment collected was a
 buff powder. Nitric Acid the dose to ʒi.
 diluted with water every 2 hours till a sediment
 appears. it should then be continued 2. a day
 for about 5 months. Opium should be given
 to relieve pain & mild purges to keep the bow-
 els open. The nitric is more powerful than the
 muriacic acid. It should always be remem-
 bered that as calculi are composed of different
 substances, we should vary our medicines till
 we find the remedy adapted to that peculiar
 calculus with which the patient is affected.
 I shall now proceed to carbonic acid, agreeably
 to the experiments of Mr Dobson Percival
 Saunders & others, the continued use of water
 impregnated with carbonic acid diminishes
 the size of calculi in the bladder & has
 a tendency to dissolve them. It has also been
 proved that the persons (their urine) taking fixed air
 will dissolve calculi cut of the bladder.

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I can say little from experience on this subject. I have in the first air in the form of Seltzer Water, in gravel & other phretic cases (affections), with a drantage. It may be introduced into the system, in the saliva ~~or~~ ^{or} we may give the carbonate first, following it with the acid ~~that~~ ^{that} the effervescence may take place in the stomach. I gave it in the form of Seltzer water to a boy of 16 years of age, who was affected with calculus. I ordered him to drink the Seltzer water, half pint 3 or 4 times a day, in a few days after using the Seltzer water he voided 42 calculi of tolerable size.

Lecture 33.

Bitter and astringent are also used as antilitics. *Uva Ursi*. (Whortle berry) Grows wild in Europe & North America the taste of the leaves is astringent followed by a bitterness. They are powerfully astringent striking a black colour with the Salty of Iron. This article does not produce any change hardly - scarcely upon the pulse nor on the system. At large dose ʒss of the powdered leaves ʒss 3 times a day. This is too small a dose. Dr. Cumme Sen? gave ʒss 3 times a day. This does no kind of good. Dr. Rush showed me a Roman prescription. This is very useful to relieve the pain of stone, & especially those who labour under it during the day. it is the best of all remedies. In nephritis he called it is useful. In an irritable state of the bladder, the *Uva Ursi* is as often successful as any other article, but I also give the Balsam of Pavia *Uva Ursi* & In Hematuria. Catarrh of the bladder it will not effect a cure unless we remove the remote cause, but as this article is not irritating, it cannot do any harm. In chronic Gonorrhoea & Leucorrhoea. In the former, still we cure it by this article, but in 9 out of 10 cases will succeed by passing a bougie into the urethra. In Leucorrhoea we must attend to the catamenia

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as I have before mentioned, that urea Urin is particu-
 larly adapted to Leucorrhoea this is a most unman-
 ageable disease, in order to cure it, it is necessary
 to change the secretory action of the vessels of the
 Uterus, which is difficult. There is a species of Leu-
 corrhoea of the vagina, which is cured by astin-
 gent injections. General treatment, and if females be
 single marriage is preferable to particular remedies
 (*Lepidus Communis*) Hop as an antitithic, an
 infusion has been used with advantage. in nephri-
 tis & strong decoction of hop, about a pint of
 which should be taken a day, cures the pain &
 often cures. The tincture is not proper in these af-
 fections. Small liquor subject to Dr Barton to gout
 & nephritis. *Hareus nephritis carota*. this has
 been classed among this class by Dr Chapman
 he has known it to produce a copious discharge
 of urine & often to relieve nephritic affections
 a decoction of the seeds or root is used or a sin-
 ple infusion, in quantity about 1 pint or a quart
 a day. the cultivated carrot has similar proper-
 ties but is not so strong as the boiled I have never
 used it myself but I commend it from the au-
 thority of Dr Chapman. The *Aliaacea* are
 also of this class. *Allium Sativum*. (Garlic.) This
 on the urine & is mostly recommended in drops
 I think it a doubtful efficacy as an antitithic
Oleum Terebinthina. first used by Dr Physick
 dose 10 or 15 Gutta 2 or 3 times a day, with a few
 drops of oil of cinnamon, but I prefer it with 2 or
 3 drops oil of Sassafras. it may be given with any
 essential oil 10 or 15 gutta with 2 or 3 gutta of
 oil from 2 to 3 times a day. This is the best
 of all remedies & Dr Physick's extensive experience
 of this remedy has also been very successful. to relieve
 the symptoms of stone or pain &c Dr Physick always
 makes use of this remedy.

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Lecture 34.

Diaphoretics. Santorini was of Opinion that a person perspires 15 times more from the skin than from any other excretion, but this is incorrect. Diaphoretics differ only in degree of force & therefore need no subdivisions. The evacuations are poured out by the vessels of the true skin. It is composed of glutin & mucus of ammonia the matter discharged, may

I think be sometimes changed as the urine, but in small part it is probably changed. In Synocha & when the circulation is extremely languid & the skin nearly insensible, sweating sometimes takes place. Cullen's opinion therefore is incorrect. Diaphoretics act, 1st by depletion, by exciting the fluids. 2^d by filling the superficial arteries with blood, by abstracting it from some other part 3^d by exciting a new action it tends to abstract directly from some other part. in suppressed eruptions, or suppressed secretions, the blood vessels perhaps retain some fluids, which they ought to have discharged. External heat, either by cloths warmed or flannel &c. being a non conducter prevent an evaporation. In Phonic cases, as chronic rheumatism. Flannel should be worn next the skin as the Professor of practice of Physicians will tell you to prevent a sudden check to perspiration is highly injurious, as patients generally tear off the flannel & cloths if not closely watched. I have often seen patients that were destroyed by this neglect, you are to avoid purging them you use them as the patients getting out of bed, might from the suppression of the discharge suffer considerably as the patient should frequently change his clothes and other

Application to Diseases. 1st In Fever Cullen divides continued fever into Synocha Typhus & Synochus Cullen who during 40 years practice has never seen a continued fever. I have never seen one I believe that no such fever occurs.

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They all had more or less of a remission & intermission

When the temperature is about 105° nothing can excite sweating they are given during the remission & intermission

Doct Lind gives them to relax the extreme vessels they 1st diminish the force of the circulation. 2nd by exciting an action on the surface tends to abstract from other parts. Respecting Spasm of vessels (the) is full of error, but the practice is correct. When morbid action is only about 103° Diaphoretics must only perform part of the plan of treatment. Nerve action purges speaking of acute inflammation Plegmasia. Saline Diastism the more stimulating diaphoretics are to be used. In regular Cholera when a retrocession is not to be feared, Diaphoretics may be used. In Peritonitis they are highly useful.

Lecture 35.

In Dysentery which is a genuine species of Plegmasia, a genuine inflammatory affection of the bowels. Cold is the exciting cause of Cholera. Most Physicians say that cold is the most frequent cause of Cholera. It is said that unripe fruits are a portion of it. Therefore bear it in mind that you are to determine to the surface. You will find that mucus will be rejected, & avoid cold and you will ease your patient, avoid irritation some times injection, become necessary, as starch Liniments. If these measures are used Tonics are useful. but give food of easy digestion which will be the best tonic. Dr Chapman found Black berry very beneficial we shall try if it will be used.

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The Sympathetic is very strong between the surface of the intestine, a planne skin therefore should never be neglected in such cases as chronic Diarrhoea &c. In the class nervous of the Cullen Diaphoretics are not unuse, as Coma, palsy & in mania they are part of the phlogistic regimen (antiphlogistic rather) In Diabetes. The proximate cause of this disease is not known. a common symptom is where more urine is discharged than the liquids taken in. Cullen says that in Scotland it is never cured in this country it is often cured by treating it according to the system. Dr. Physick had 4 cases which he cured by following Rollos plan, animal food was allowed & Dr. Ferriars prescription is viz
 R. Peruvian Bark 20 grains
 Nva Ussi — 20 grains
 Opium — — 1/2 grain } and this to be given 4 times a day with the occasional

use of lime water they were cured. diaphoresis may be used, when the skin is dry & not else.
 Particular Diaphoretics. Duncan divides them into 5 or 6 classes. This division is useless as it does not assist us in our inquiries. Biech made nearly the lot of them plunged into vinegar, & we applied in to planne & applied. Dr. Senning's continued an instrument which is curious and can be separated into 4 pieces but it is inconvenient. The vapour bath as a diaphoretic is also very inconvenient, because the patient must be taken out of bed. more of this hereafter. Hot. Sand, Bran, Chaff, ashy, Cut straw, heated in a bag and applied, is sometimes used. the same objection attends this. Bladders filled with hot thick. Water &c is sometimes used. Warm bath is sometimes used by practitioners, but it is also inconvenient as a diaphoretic. Pediluvium has also been used. Cold water taken into the stomach occasionally produces diaphoresis

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Lecture 36

Emetics may be managed as to produce diaphoresis or sudorosis. Antimony. A sympathy exists between the stomach & the skin. The state of the one is to a certain extent communicated to the other, the nauseating effects of emetics for example, being accompanied with diminished action, at the surface this effect is apparently produced, by the preparation of antimony & some of them particularly the tartaric acid of antimony & potash are hence employed as diaphoretics in febrile affections. The former is given in a dose of from 5 to 10 grains, repeated every 3 or 4 hours, until its operation. As a sudorific cathartic or emetic is produced. Dr. Kuhn of this City, an old practitioner has seen James powder tried in many cases. (the diaphoresis in which it is principally employed with no great success. he prescribes Tart. Emetic. he has for many years not prescribed it. the latter (Tartaric acid) being given in a dose of $\frac{1}{16}$ to $\frac{1}{4}$ of a grain. in a similar manner the action of both is aided by warm diluents & sometimes that of the tartaric acid & potash, is rendered more certain & powerful by combination with opium. the Sulphuret of Antimony. Levigated has been used as a remedy in some cutaneous diseases. & chronic Rheumatism & has been supposed to operate by increasing the insensible perspiration. Antimonial opiate. It is made in the following manner

Antimonial Tartar — 3ij.
Distilled water boiling hot — 3ij.
Spanish white wine — 3vj.

antimonial tartar in the water, & then add the wine, this is a solution of the tartaric acid of antimony & potash in wine. In preparing it with nitric Antimony or glass of antimony, a portion of the glass

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is dissolved by the ^{free} Tartrate of Potash contained in the wine, & as the quantity of this is variable so also the quantity of Oxide of antimony dissolved varies & therefore the preparation ought to be entirely rejected, since its strength can not be known. The dose is easily graduated to a very young child of 1 month old 1 drop from 2. 3. to 5 guttae under 5 years, 10. 15. or 20 guttae is the proper dose for an adult. I prefer giving the Tart. Emetic in solution. 1 gr. Tartar Emetic dissolved in water. By Sir John Pringle it was recommended in Bilious fever & H. Gentry. When antimony was first used in fever it was kept as a noxious. When you prescribe it do not in form your patients of the same, as I have seen a person, when the very name of antimony was mentioned produce vomiting. In Rheumatism. It is highly useful, in form of a diaphoretic. James powder is very much used in this case. The cases in which the use of antimony is contraindicated, is gout, dyspeptic patients, cramp in the stomach &c. The next emetic as a diaphoretic is **IPECACUANHA**. Dose $\frac{1}{2}$ gr or 1 to 2 grains every 2 hours, acts as a diaphoretic. In combination with nitrate of Potash in proportion of $\frac{1}{2}$ grain Ipecac to 8 grs nitre forms an excellent diaphoretic it is most frequently used in form of pulvis. Ipecacuanha et opii vel Dover's powder, which as you all know is a powerful diaphoretic. Is also used in the form of Ipecacuanha wine, which is made in the following manner. The Rad Ipeca buisid. $\frac{1}{2}$ lb
 Spanish White wine two pints.
 Digest for 7 days and strain.
 Diaphoretics are contraindicated in an irritable state of the stomach & alimentary canal. Opium. In a pretty large dose produces sweat.

particularly when its operation is promoted by activity & external warmth it is difficult however to employ it alone, as a sudorific from its narcotic power being necessarily exerted at the same time. But by combination with antimony or Speaculhana a modification of power is produced more important perhaps than any other arising from combination of emetics. The narcotic power of Opium is in a great measure prevented. The nauseating effect of the Speaculhana or antimony is also diminished, & we obtain a sudorific more powerful & certain than any other. In the combination with Antimony 30 guttae of antimonial wine are usually added to 25 guttae tincture of Opium. The combination with Speaculhana is still more powerful. It is an official preparation. Every powder consists of one part, Opium one part Speaculhana one part & sulphate of potash eight parts. These being rubbed together into a fine powder. The sulphate of potash renders this more easy by dividing the Opium and lessening its viscosity, various articles have been used as a substitute for the Sulphate of potash. I use nitre for a substitute as it cooperates with the diaphoretic effects of the other articles. Some substitute loaf sugar & Gum arabic for sulphate of potash. In Dysentery we may substitute chalk for Sulphate of Potash. The powder is to be given in the morning according to Dr Cullen. The powder is best taken in the form of ~~powder~~ bolus or in a wafer. I give it in emulant jelly, no drinks to be given until sweat breaks out, then warm distilled drinks are proper. Secure the patient from cold place him in flannel case is to be taken to avoid the application of cold, either by the admission of cold air to the surface, or the drinking of cold water, while the sweat continues or for some time after it has ceased. Bottles filled with warm water are to be applied to the soles of the feet.

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Warm bricks &c will promote the operation of Dover's powder. You must particularly direct the nurse to watch the bed clothes, as if this is not strictly attended to, the patient is apt to take cold. When a sweating is to be checked, it is best done by drying the surface, removing the patient into dry flannel, & allowing him to expose his hands & arms to the air. The patient after sweating ought to keep his room, the first few days. This is the medicine which is universally employed, when copious sweating is to be induced as in acute Rheumatism, in Anasarca, according to Dr. Cullen & in every other disease in which this indication is to be fulfilled. Milder dose 10 gr. if it fail in producing sweat, other 5 grs may be given, at the end of an hour, & sometimes even it is necessary to give larger doses. In Gout much employed but it is certainly ignominious in this disease. Dr. Brown says gentlemen ought always to be kept in view, it is unnecessary to enlarge on this subject, let us proceed to the consideration of the neutral salts. Acetas.
Ammonia. All the Ammoniacal salts are supposed to have a diaphoretic power. the acetate is the one which has been principally used. It is in solution (aqua acetatis ammonia) having been long celebrated under the name of spirit of Fallenderus (spiritus Mindeus) as a diaphoretic in febrile cases.
Vinegar. Zi. Saturated with carbonate of ammonia. the carbonic acid being disengaged with effervescence, the acetate of ammonia remaining in solution. 1 oz every hour or 2. Saturated with ammonia juice. it has antacid properties, it prevents acidity, though when you wish to prevent acidity you give

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Chalk Magnesia &c. Its operation is promoted by tepid water or diluent, and the sweating regimen as it produces no increase of vascular action. It has been supposed well adapted to exhibition in inflammatory fevers, as Synocha & acute Rheumatism & it is in such cases that it is usually employed. Citras Ammoniac. Saline mixture. Lemon juice neutralized by potash has long been employed as a refrigerant, in fever where neutralized or ammonia it is supposed along with its refrigerant to have a diaphoretic power. Its diaphoretic operation is sometimes promoted by the addition of a few drops of Sinc. Opusii & Antimonial wine. In either way it forms a good diaphoretic. It is much used in Europe but is little used in this country. It is very grateful to the stomach. Lemon Juice & Water 4 oz. Dose a table spoon full. Salt of Soda We also sometime, add oil of mint. Sweetened with sugar Doctor Murray places Calomel, Submurias Hydragrye on his class Diaphoretic. It has little effect but I do not wish to place it on the list of diaphoretic. **SULPHUR.** It has been remarked to pass off by the cutaneous vessels & with some increase it has been supposed of the insensible perspiration. Hence has been explained the advantage sometimes derived from it in habitual dyspnoea & in chronic Catarrh. Camphor. Has been employed as a diaphoretic in acute Rheumatism, in different forms of fever & H^r Cullen mentions its beneficial effects in several of the exanthemata particularly small pox in a dose from 5 to 15 gr. Its operation is not sufficiently certain. However when it is given alone sometime it is combined with other with antivenereal &c. &c. &c. &c. &c. &c.

Lecture 3rd

At my last lecture I mentioned several articles, as
 Diaphoretics. I shall resume the subject this day.
 I shall speak of the *Eupatorium Papposatum*. This
 plant is known by the name of thorough stem. Cops
 wood, Bone set & Indian sage. It is one of the com-
 mon plants of the Indians & acts powerfully as a sudorific
 and emetic. Is employed in intermittents & other
 fevers, either in decoction or the leaves in powder
 every part of the *Eupatorium* may be advantage-
 ously used, although the flowers appear more ac-
 tive. a watery infusion of the leaves is a disagre-
 able bitter, and the flowers are deemed by Doctor
 Patton superior in this respect, to those of anthe-
 mis nobilis. This is used in intermittent fevers
 as a tonic. we have better tonics as peruvian bark
 &c. My colleague Dr. Chapman stated in his lec-
 ture, that he was much pleased with this medi-
 cine in Intermittent fever. Dr. Patton also highly
 recommended it. Emetics & Mercurial purges, Pe-
 ruvian Bark & arsenick have cured all the
 intermittents I have seen. my experience in this
 disease is not very great. This medicine has been
 employed in bilious fever. In Yellow fever Dr.
 Bostock & several others extol it, in other disor-
 ders. I think it possesses as much power as warm
 water in this disease. It is of little value in
 those cases. In Dropsy it is sometimes useful
 as a diaphoretic when they are indicated.
 In Typhoid Pleurisy it has been found benefi-
 cial. It was much used in that disease.

POLYGALA SENEKA. Seneka or Rattlesnake root
 Seneka is a perennial plant, which grows
 wild in N. A. Particularly in Virginia & Penn.
 This root is certified as I have before mentioned

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When I spoke of it under another class. Dr Percival of Europe & Dr Tennant have highly recommended it. It has emetic, Diuretic & Diaphoretic properties. Dose ʒi to ʒj pint of boiling water as a diaphoretic - i.e. in this quantity as a Diuretic. *Laurus Sassafras*. This tree is a native of S. A. It is the root which is commonly employed. It is brought to us in long branch like pieces. it is a soft light & of a spongy texture of a rusty white colour. of a strong pleasant smell resembling that of Fenugreek & a sugary aromatic subacid taste. It affords an essence by distil. & yields to water by infusion or decoct. The flavour & part of its taste it is slightly stimulant & diaphoretic. Its infusion has been drunk probably in cutaneous diseases (scaly) & in chronic Rheumatism & it is frequently added to decoctions of Sassafras, Gelsemium & mezerion probably without communicating any real property. The infusion is very grateful & much used by the vulgar in S. A. *Salvia Officinalis*. Sage. The leaves of this shrub have an aromatic smell & a warm bitterish taste. Its aqueous infusion drunk warm has been used to produce sweat or to promote the action of sudorifics. The aromatic quality of the sage adding somewhat perhaps to the power of the steam distillate.

Guaiacum Officinale. S. Amer. & W. Indies. The wood of this tree & a concrete resinous juice obtained by exudation from incisions made in the trunk of the tree are the parts used in medicine. The wood is hard & heavy of a yellowish colour, has a little smell & a slight warm bitter taste. Its virtues depend upon the small quantity of resin it contains. Guaiac. was introduced into practice as a remedy in the treatment of the Lues venerea & was at one time even considered as a specific. Its powers are now better ascertained. it is employed merely as an auxiliary & some times with advantage, in promoting the action of mercury in the advanced state of the disease (confirmed state) & in alleviating the various symptoms which arise from a protracted mercurial course. It is likewise occasionally prescribed by some Physicians in cutaneous diseases.

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an scrupulous affecting & in chronic Rheumatism.

The form under which it is administered is always that of decoction. Formula. take $\frac{1}{2}$ lb of Lignum Guaiacum shavings. 3 qts of water boiled to 2 qts. given ad libitum. Another form in which it is often given called the volatile tincture. R. Spiritus Ammoniacalis.

Doctor Chapman gave it in Rheum Guaiacum 3℥ Rheumatism, in the dose of an ounce at bed time.

Often given in powder rubbed up with Arabic or white of an egg. in Dose of 15. to 20 grains.

It is sometimes used in gout but without advantage. Dr Gullen consumes the idea of preventing a fit of gout with Guaiacum. But this I do not believe for I have used it in Gout of the Stomach.

I mean the vol. Fine. Dr Barton also used it with good success in Colica Pictorum. By incisions made in the trunk of the Guaiac Tree, it affords a gum resin. This is friable of a greenish or grayish colour & resinous texture has an odour somewhat fragrant & warm bitterish taste. It

was usually regarded as a G. Resin. but the experiments of Mr Brande have shown, that it posses

some peculiar properties. whence it has been regarded as a distinct principle. it is very liable to changes of colour apparently from the

action of Oxygen. Its powder is at first a gray colour, but becomes green from exposure to the

air & when its solution in alcohol is decomposed by acids, the precipitate assumes various tints of colour. It is almost entirely soluble in alcohol water by digestion or it dissolves a little

extractive matter. The tincture of it in Spirit of ammonia is more highly stimulating, than

that in proof spirit & is generally preferred.

DAPHNE MESEYON. In the bark of this root

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So used in medicine. its taste when it is chewed for some time is extremely acid, but this acrimony is somewhat impaired by drying. it is extracted by water & vinegar. when applied to the skin in its recent state, it raises blisters. Mercur is a stimulating diaphoretic, which the root was long used as in the Lisbon diet drink, for venereal complaints, particularly nodes & other symptoms resisting the use of mercury. & also given in cutaneous diseases but Mr Pearson of the Lock hospital, says, that excepting a case or 2 of Leprosy, in which a decoction of the plant, conferred temporary benefit. he very seldom found it possessed of medicinal virtues, either in Syphilis or in the sequelae of that disease. the decoction is made by boiling $\frac{3}{4}$ lb in 3 lbs of water to 2 lbs in the course of the day.

R Sassafras

Sassafrilla
Red Sanders of each $\frac{3}{4}$ lb
Mercur $\frac{3}{4}$ lb
Guaiaicum $\frac{3}{4}$ lb

Doctor Cope takes
Sassafras $\frac{3}{4}$ lb
Guaiaicum $\frac{3}{4}$ lb
Water $\frac{3}{4}$ lb

It is said that it has removed some of the primary and secondary symptoms of Syphilis Doct. Chopman mentions it

JUNIPERUS SABINA. Savine. This is an ever green shrub, a native of Tartary & Siberia, but not unfrequently in our gardens. The leaves have a bitter acid biting taste & a strong disagreeable smell distilled in water they yield an essential oil in considerable quantities. Savine is a warm stimulating medicine, capable of producing diaphoresis, & increasing all the secretions but apt to excite hemorrhagy particularly from the uterus, it is said to be an anthelmintic & to be very efficient in the cure of gout. Internally fresh leaves from $\frac{3}{4}$ lb to 3 lb is given in conserve & externally applied as a rubefacient.

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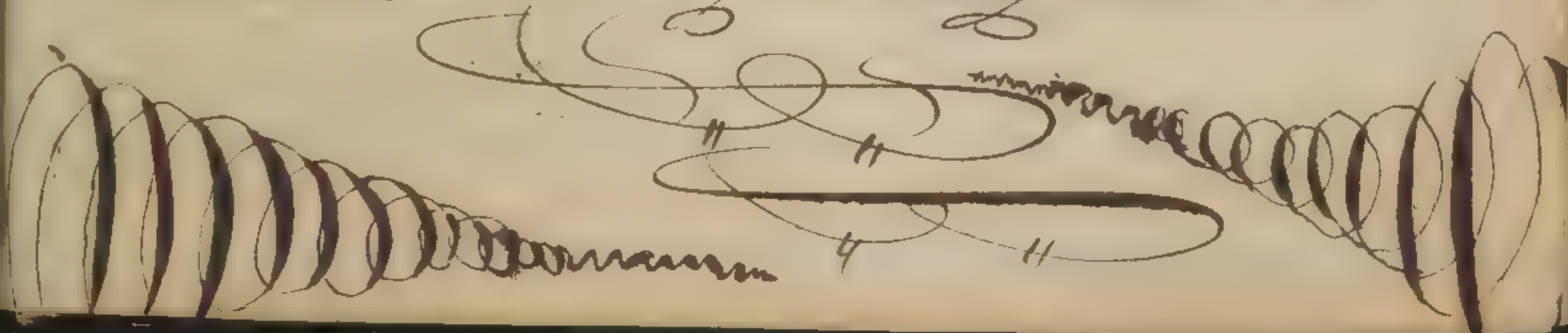
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OF Sialagogues.

Are those substances which increase the flow of saliva. This may be effected either by the mastication of substances, a chip, a piece of paper may a single idea will produce that effect. but I will confine myself to noticing 1 or 2 only, however Dr. Barton has spoken of several. Tobacco pipes the effect not in a small degree as you all know. Or by the internal exhibition of certain Sialagogues. & in the strict sense of the term Mercury is the only Sialagogue. **HYDRARGYRUS.** Quicksilver, is an article of the greatest moment in medicine. Its chemical history ought to concern you. for there is not a clasp of diamonds in which some of its preparations are not used. great is the science of Chemistry in drawing from the earth, a medicine of so much power. It was not known to Hippocrates. Mercury in a crude state appears to possess no activity as a medicine. It was a fashion for the British Ladies to take it Dr. Barton says it fell into disuse by the ladies letting it fall in the Ball rooms &c. There are however morbid consequences which result from obtaining it in the mines. the miners only live a few years & generally die of some serious disease. a crew of an English ship were salivated by the bursting of the kegs which contained the mercury bursting on board.



1800-1801

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Lecture 38th

At my last lecture I spoke of Mercury to day I shall resume the subject again. Mercury in a crude state passes through the stomach and bowels unchanged, but in a state of minute division it is not known whether it undergoes any change. After boiling quick silver in water it imparts a metallic taste to it. Its effects in salivating are so great as to destroy deglutition. Its effects are very different in different constitutions. I have known ʒij of corrosive sublimate to produce a salivation. I have seen a patient die from taking 8 of our antimonials, so great was the action of the mercury on his constitution, in other instances, great quantities are taken without producing any of these symptoms, one of the strongest symptoms in detecting salivation, is a lived line, round the edge of the gums. In children it is acknowledged that mercury should not be given under 2 years of age, with a view of salivation or it seldom salivates, & often dreadful consequences ensue, by the administering it with the intention of producing ptyalism. **Of MERCURY.** There are many preparations of mercury, of which I will only mention a few, as the Blue pill Plaster, solution & the blue ointment. The blue pill is made by saturating mercury & honey, with a little chalk which I always add.

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R. Quicksilver — 3ij } I add the chalk to both
 Conserve of — — — — — iij } the pieces, divide the mass
 Pulv. Liguoria — 3j } so as to give 1 gr. at a dose
 I consider the preparation in the dispensatory
 as a very useful one (excellent one) but I merely
 add the chalk for the purpose above mentioned
 for Plunk's solution see beginning of these notes.

Blue Pill. Is made by triturating quicksilver
 with Rhubarb or prepared chalk, I prefer chalk
 it is sooner made, will triturate mercury bet-
 ter than any other article. Doct. Boerhaave makes
 his blue pills in this manner R. Purified Quicksil. 3ij
 Rub the quicksilver with { Conserve of Roses 3ij.
 the conserve of Roses, until { Liguoria finely powdered 3i
 the ~~excess~~ globules disappear. then add-
 ing Liguoria root. vice dispensatory. (I prefer
 Chalk preparation) Take for instance 6 grains
 of quicksilver

Chalk 2. S. into pills IXV

Mercurial Ointment. Unguentum Hydragryi
 It is made of various degrees of strength. The
 experiments of Dr. Fordyce prove, that the
 globules of mercury are seen in the pores. —
 Some writers say, that the good property of
 Plunk's solution & blue pill, depend on the
 Oxygen they contain, now this all connects
 that the Oxygen wont saluate, without mercury
 there is not a doubt. Mercurial Ointment
 is made as followed. Quicksilver & hoglard,
 of each 1 part, Rub the quicksilver ^{pro-} thoroughly
 in a mortar with a little lard until the
 globules disappear, it may be made also
 with a double or triple proportion of Quicksil-

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The only use of the Larc is to facilitate the ex-
 traction of the Quicksilver as it is called, and
 the introduction of it through the cuticle. These
 purposes are perfectly obtained from this preparation
 and any larger quantity of unctuous matter
 merely weakens it, and renders it necessary to
 continue the friction longer. This like all oth-
 er mercurial preparations obtained by tritu-
 ration, was at one time regarded as deriving
 its efficacy from the mere mechanical di-
 vision of the metal. There are reasons forbe-
 lieving that in all these preparations, the
 mercury is oxidated, & that their action on
 the system depends on this oxide. There are
 even additional grounds for admitting this
 conclusion with regard to mercurial oint-
 ment. Unctuous matter appears in general to
 promote the oxidation of metals, by the ac-
 tion of the air, as is exemplified in the green
 crust which copper speedily acquires, when
 coated thinly with grease. The improvement of
 the ointment from keeping, affords a similar
 presumptive proof. The ointment is when
 newly prepared of a light bluish grey colour
 but when it is kept some time, it becomes of a
 much darker colour probably from the oxi-
 dation of the metal becoming more com-
 plete. It has even been supposed that quicksilver
 in the preparation may suffer a farther change

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Unctuous matter & more especially that of animal
 origin, is known to become rancid from the action
 of the air, and this rancidity appears to be con-
 nected with the formation of an acid, probably
 the acid produced from fat. The Sebaceous. This
 change may take place to a certain extent
 during the trituration, & still more when the
 ointment is long kept, air may promote the
 oxidation of the mercury, while any acid
 that is formed may combine with the oxide
 according to this view mercurial ointment
 will consist of unctuous matter, in which
 is diffused oxide & sebate of mercury, with
 a portion generally of metallic mercury, its
 activity of course depending on the former.
 Rancid fat it has been found, extinguishes
 the quicksilver better than recent fat, &
 may be allowed as by the action of the
 metal, the rancidity of the fat appears to
 be corrected. Mercurial Ointment is the form
 under which mercury is introduced into the
 system, by external friction. It is a mode em-
 ployed with advantage, in cases, when the prepa-
 rations administered internally, are liable
 to be determined to the intestines, so as to oc-
 casion griping or purging, or when it is neces-
 sary to introduce a large quantity of mercury
 speedily into the system, the general mercuri-
 al action being in this soon induced. It
 likewise sometimes employed in some local
 affections particularly Canker &c rubbed morning
 & evening.

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(In the modus Operandi of Medicines. of the operation of Mercury) Various opinions have been advanced on this subject. the particles of mercury were supposed to enter the blood vessels, & thus pass through the circulation & render the mouth paturous & this way prove serviceable but it has never been detected in them. Paracelsus supposed it to evacuate the morbid matter out of the system through the medium of the salivary glands Cullen says mercury cures by its evacuant operation, and if it cures by an evacuant then Emetics & Cathartics will cure the same disease & we would have no occasion for mercury. but this is not the case. Svedenham supposed it to neutralize the venereal virus, by decomposing it. Mr C Bell supposes the same. Mr John Hunter who has ascended less to his theory, than to his facts. I think him the only correct on this subject. He believes that no two actions can exist in the body at the same time, when mercury cures the venereal disease it does it by exciting a new disease & new action & this by long continuance of the remedy overcomes it. It is the only correct idea we have of the modus Operandi of mercury. It has been said that Hunter's theory is a compound of Statics but is incorrect. Is mercury ever absorbed from the skin to stomach or intestines? this is a question. It acts by stimulating the part to inviolability to which it is applied & from that part it is communicated to another part by sympathy.

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Sympathy which is only a modification of irrita-
 bility. It is as sound a Philosophy to assert, that when
 a globule of mercury, is applied to the 5 Villi of
 the stomach it will affect a Lueser, or when
 applied to the fine coat of a blood vessel. Dr
 Hamerton who has written very judiciously
 on this subject, says he has often found globu-
 les of mercury in the breath of salivated wo-
 men. yet, again & again has been determined. Hal-
 ler relates cases where it was found in the lungs
 Dr Mead, Broadwell, Bownhove & Boyle, say
 that globules of mercury are found deposited
 in different parts of the body. but it appears
 from more modern examinations of Mr Bell
 Cruikshank & others of modern time have exam-
 ined several hundred persons who had died whilst
 taking mercury &c. but they could discover none
 Mr Physick wrote a paper to prove that mer-
 cury is never found in the fluids of the body
 he says that it is the opinion of many, that mer-
 cury cannot salivate without entering the
 blood vessels, which experiments with the blood
 & ~~blood vessels~~ saliva of salivated patients, which
 satisfactorily prove, that the fluids were not im-
 pregnated, the mind of the patient will sometimes
 produce a copious flow of saliva, however it is
 certain that mercury cannot exist in the system
 In common cases I think it can act without
 entering the blood vessels or is commonly suppo-
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Dr. Physick's Experiments. A Gold piece was put into the blood & Saliva, with change of silver & copper. Charcoal being ignited and added to the Saliva & it could not be detected, also in the Serum of the blood. Dr. Worn of Boston whose authority may be depended upon repeated Dr. Physick's experiments with the same results. Dr. Sydenham made experiments on the saliva & Serum of the blood. a quantity of Saliva & Serum was put into a flask, in the neck of which was suspended a piece of Gold & the put over the fire & the Gold remained unaffected, shewing that the Saliva contained not 1 single Particle of Saliva Mercury. Mr. Hunter says mercury may be supposed to act in three ways. 1st By uniting with the poison & chemically decomposing it. 2 By evacuation 3 By producing irritation in the constitution, which counteracts the venereal & counteracts it (destroys it) the 2 first we cannot believe. 1st We ~~never~~ have no proof of mercury acting by decomposing the poison or by Dr. Physick's Experiments which never detected mercury in the circulation of the blood. 2 When it acts by evacuation, it has the least effect on the disease, or on the constitutions which are most affected by it. it has scarcely any effect. as well as evacuating by other means, which ought to cure it if this was the case. the poison does not exist in the constitution. otherwise it could not be locally cured.

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Lecture 39

Commenced with a recapitulation of the last Lecture. We shall now enter upon the consideration of the different preparations. Plunks Solution, the blue Pill & Blue ointment have been described. **Ethiops Mineral.** (**Sulphuretum Hydrargyri**) a **Lignum** is made by triturating equal parts of sublimed Sulphur & quick silver. This preparation is scarcely used some think it inert. The dose is from 10 to 20 gr I never gave it internally & I believe never shall.

Hydrargyri & Sulphuretum Rubrum. **Cinnabaris Fictitia.** This is made with 5 parts quick silver & 3 parts of Sulphur. Mix the quicksilver with the melted Sulphur & if the mixture takes fire extinguish it by covering the vessel afterwards reduce the mass to powder & sublime it. This is rarely used internally. Sometimes used in fumigation in venereal ulcers, in the nose mouth & throat. If it is burnt the fume being inhaled will occasion a violent **Phlogion**. Is used in various chronic diseases, as Gout & **Calomel**. (Submuriate of mercury) The Professor of chemistry who will give you all the information on the preparation of this article. This is a cathartic as I have already told you, is the most valuable of all the preparations of mercury. The dose as a **Sialagogue** to an adult is one or two grains every 2 or 3 hours. if this dose purges give opium. In Fever **Calomel** is preferable to any other preparation of mercury. It must always be given in some thick vehicle.

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OXYMURIAS HYDRARGYRI.

(Corrosive Sublimate) Corrosive muriate of mercury)

This is soluble in water. the dose as a Stomachagogue is $\frac{1}{8}$ $\frac{1}{6}$ or $\frac{1}{4}$ of a grain. 2 or 3 times a day in form of pills, a solution in an over dose produces serious effects. When preparing this or the former in the form of powder, be careful to mix it well as it is of great importance, to triturate & mix the different parts well together. I was called to a Lady who was poisoned with this article. I immediately directed her to drink Lime water & then a large quantity taken into the Stomach & you draw its baneful effects work out the Stomach, by introducing a tube. You must use the old names of these preparations, as I have seen some evil consequences result from neglecting this.

The Red Oxide of mercury. (Hydrargyrum Calcinatum) is prepared in the following manner. Take quicksilver any quantity, put into an open glass vessel with a narrow mouth & wide bottom. Expose this to a heat of 500° until the metal is reduced. It is a very active mercurial. Its dose is one grain twice a day. It is liable however to produce irritation of the stomach, & intestines, on this ase it is not frequently used. Mr Hunter used this preparation. I can say nothing about it from my own experience.

Red Precipitate. (Oxidum Hydrargyri Rubrum per acidum nitricum) Is made by dissolving one lb of quicksilver in diluted nitric acid. 16 oz & evaporate the solution with a gentle fire to a white mass, which being reduced to a powder is to be put into a glass cucurbit & apply to it a fire gradually raised, until it pass into very small red scales

I consider it an oxide with nitric acid, it is or acid as to be altogether unfit for internal use. externally it is applied as an escharotic to ulcers &c being applied either in a finely levigated powder or mixed with lard in the form of ointment. Turbiths Mineral. This has been seldom used as a sialagogue but it has been used as an emetic, but when I want to vomit, I use Tar Emetic. which I find to answer every purpose without having recourse to new articles. White Oxide of Quicksilver (Calx Hydrargyri) The Professor of Chemistry will give you all the information of the preparation of this article, to whom I refer you for the preparation of this article. Dose 2 or 3 gr 2. or 3 times a day. It is generally used for ointments. Phosphate of Mercury. (Phosphus Hydrargyri) elix. camph. = ly in a capacious glass vessel & add 8 oz of Sulphuric Acid. Water 4 lb. white calcined bones powdered 14 oz. method of preparing vide Dispensatory. Is a valuable remedy in the hands of a judicious practitioner. Keyser's Pills. It is supposed to be a mild preparation of mercury, viz the acetate of mercury & was the active ingredient of the celebrated Keyser's Pills. I forbear to wear out your patience in enumerating a long list of mercurial preparations of which I could mention several hundreds. I have done here as in many other places struck out many articles which I consider as useless. For I can assure you I will never resort to them when I can get others which are better. I will go on to notice the effects of Sialagogues. In diseases of their use in Fever.

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I told you the Arabians were the first who used mercury, it is only a few years since its first use in ~~mercurial~~ fevers. Dr Wouren had recourse to it in an epidemic, he prescribed it from the commencement of the disease. In the west Indies they appear to have a very different opinion. Mosely's treatment was venesection purging blistering & then bark &c. Dr Christholn used mercury very extensively in fevers. He seems to have been led to this practice by his attending to fevers in which the liver was affected. He would commence with 5 gr every few hours, in 1 case he gave 40 grs. in some cases he gave 10 gr every few hours, in which he would salivate in 24 hours. Dr Physick & myself have dissected several hundred who died of this disease & we determined that the stomach was the seat & throne of the disease not the liver as Dr Christholn supposed. (note the yellow fever is what I allude to) Some of the practitioners of the Indies, have followed Dr Christholn, & they have gone as high as 150 grs. there are forcing, we will have to trust to our own countrymen. Dr Wouren of Boston has written a very excellent work on this subject. The Yellow fever of 1793. of this City, a salivation was found to cure but difficult to obtain. Dr Rush says a salivation was found to be the most certain remedy in the yellow fever of this city. he says he has never seen a single case prove fatal where a salivation was effected when it passed off by the bowels, he gave opium. The late Dr Saml Duffield of this city, always

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Gave it in combination with opium. he universally gave it with opium. I never seen a person use it in prescription so much as he did. In the mild bilious fever it has been used: but it is not necessary only in protracted cases. In Typhus it has not been used in consequence of its not being known how to administer it properly. In women used it in Typhus fever together with blisters. Dr Rush has left his testimonies on this subject. he speaks very favourably of it. In the Phlegmasia it has been successfully used. there is a difficulty in ascertaining how it acts in these cases we call it an attenuative. Mr Hunter says it acts by producing a new disease, greater than the Original. Chronic ophthalmia, & opacity of the cornea, I have cured by mercurial salivation being kept up for some time, in this way I have always succeeded. In Phrenitis it has been used but in those cases venesection purging, Blisters &c. are to be used. If they do not succeed then use mercury. the English practitioners use mercury to relieve pain Cough &c. of Chronic Pneumonia & prevent pulmonary consumption from coming on. They suppose they can use venesection more freely than they have formerly done. this observation is very correct after proper evacuation in this disease, you may employ calomel, it acts as an expectorant, of which many proofs could be selected, on the subject of pulmonary consumption I explained to you in a former lecture very fully. Dr Rush believes pulmonary consumption

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to be a disease which affects the whole system, in consequence of which he took up the use of mercury. he has spoken very highly of its use in Typhoid & hectic states of consumption (pulmonary) I believe where tubercles have formed it will not prove successful. he was of the same opinion in cases of Chronic Catarrhal inflammation of the lungs I have no hesitation in saying that it is of the best remedies. pulmonary consumption can be suspended for a few months, but the next time the patient takes hold the disease returns. In *Cynanche stridula* it has been used. In *Cynanche trachealis* it has been extensively employed. Dr Hamilton gave as high as 200 gr. in 24 hours. I can assure you this is a rapid treatment in conjunction with venesection, purging, blisters &c. it is highly useful as long as the hacking cough continues. in this disease ~~continue~~ mercury. In cases of this disease where death is approaching, Bronchotomy may be used. I tried it in 2 cases & found it prove successful. the only 1 I have ever performed. I see there are 2 or 3 cases which were successfully performed in England. purging with calomel is one of the best cathartics in all protracted coughs, with which we are acquainted. Dr Wether gave con Sublimat of grains dissolved in 3j of water in doses of a few drops every two hours until come on this mixture he has successfully used it in croup —

vide the recipe in the front part of these notes.

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Lecture 40

In Rheumatism Calomel has been used. & may be so managed as to prove useful by acting also as a salagogue. Dr Donald & Munro has recommended Mercury in cases of Rheumatism very highly. Dr Barton was not partial to its use in common cases, but recommended it in Syphilitic Rheumatism. In the Phila Alms House & Penn. Hospital I have had it completely in my power to see its effect in this disease & I have never seen it fail after the patient was salivated, by the common antimonial powder or Calomel combined with Opium. In Gout it is not entitled to any great praise. Doct Hamilton has however employed it with great success, in inflammatory Gout. In Hepatitis it has been employed, & after the proper use of section purging, blistering &c it may be used as a salagogue. it is generally useful when the organization of the liver is not destroyed. I would suppose the Mercury the best & only remedy in this disease. In some cases the Liver is enlarged. In some it is enlarged & indurated. In some it is greatly diminished in size. in some cases the Liver is tuberculated, & in some it has been destroyed by suppuration. in all these cases except the last, it is useful. but in the last mentioned, it is useless. Blisters on the parts most painful are a good application. I don't know that it is necessary to dress the Blister with mercurial

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Ointment as has been recommended, but to dress it
 with some stimulating ointment, as unguen-
 tum, Sabina &c. In the Indies they suppose that
 if they produce a salivation the disease is ^{cured} cured.
 A gentleman of this city who lived a long time
 in the Indies says he was salivated 3 times
 for a disease of his liver which proved success-
 -ful every time. he is now in health. When
 hepatic affections extend to the lungs, mer-
 -cury is so good. In Icterus it is a very useful
 remedy. such is the character of mercury, that
 physicians resort to it without any hesitation.
 In Dysentery I consider it among the first
 remedies. this disease is a form of bilious fever
 with the inflammation situated in the inter-
 -stines. Lind, Clark & other practitioners of the
 Indies, all agree in saying it is an excellent
 remedy. as much praise is due to mercury
 in this disease, as it was in the yellow fever.
 Dr Bailton used to say that if mercury did not
 do good in 3 or 4 days its use ought to be
 laid aside. this is certainly not a good prac-
 -tice to lay it aside when it was ^{1st} beginning
 to do good. In Scurvy attended with Dys-
 -entery it ought not to be given. In Colica
 Pictorum Dr Clutterbush recommends it
 in small doses, but Dr Lind recommends it
 in large doses so as to produce purging. In
 Nervosis Calomel is a valuable remedy. In
 Epilepsy I have used it with success. it has

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frequently suspended the disease for a long time - there are some cases however in which no remedy will prove effectual in this disease, as for instance I sometime ago dissected a patient, where there was a hydatid on the bones of the brain. In Tetanus it has been used with success, but its action is too slow for a disease so active as Tetanus. In the W. Indies it is used in wounds to prevent Tetanus in our country it is unnecessary. In hydrophobia it has been used with no success. The disease has occurred when under the influence of mercury. I believe it will not act as a prophylactic. The Knife is the only remedy. It is true the disease has occurred where the Knife has been used but in those cases the operation was performed too late. But out the point late or early, what is the operation compared with the fixed idea of hydrophobia. In Dysentery it is useful & has been frequently used with success. It is a curious notion Physicians have taken, they have tried all other things in vain they resort to mercury, by its action as a Sialagogue & a very good notion it is in this disease. In hydrocephalus it is as I said in a former Lecture, an excellent remedy. I believe it to be a collection of water in the brain, resulting from inflammation, quite different from that produced from a blow on the head. this disease may kill the patient, or the water in the brain may die by pressure or a secondary inflammation may take place, from the reaction, excited by the irritation.

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of water on the brain. In this disease you must bleed largely, purge freely, blister severely &c. If these remedies fail by being administered too early or late you must then have recourse to the mercury, in these latter cases it is to be used as a remedy to promote absorption & a ptyalism. In the Exanthemata it is particularly applicable. Citrini Ointment is a good preparation externally. Salivation cures many of these diseases which would take up too much time in enumerating. In some cases of deafness it has been used with success. but as this disease is so obscure it is impossible to know how or when to use it. The eye is an Organ no less obscure than the ear. Mercurially in these cases is good - I told you in removing recent opacities of the cornea, it is useful I have frequently succeeded. In *Ophtia Serena*. It has too been used, but has more often failed than cured. I will conclude the history of mercury with an account of its use in Syphilis, which I will consider at my next lecture.

Lecture 41

In Syphilis. I ought to dwell on its use for some time, as it is of great importance to young Physicians. This disease affects persons in different situations in life very differently. Galienus tells us the Jews & Mahometans always escape Persons who have once had a chancre are more

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liable to them again Chancres do not occur so frequently as Gonorrhoea. Mr. Hunter says 5 cases of Gonorrhoea occur for 1 of chancre. This proportion is not correct. There are not 5 to 1. If Hospital practice was a test, I am sure you would suppose more cases of chancre occur than Gonorrhoea; however Mr. Hunter has gone so far as to say that 5 cases of Gonorrhoea to 1 of chancre takes place no person will consult a physician for a common Gonorrhoea. therefore many cases get well spontaneously. the Prepuce penis is 1st affected. the glands penis next. The Vagina is the seat of chancre in women. In the Prepuce the matter acts early. the Prepuce ulcerates first. the glands next. the prepuce next the skin of the penis & scrotum last. It is sometimes 4 5. 6. or 7 weeks before the matter acts. Mr. Hunter relates a case of a man who travelled 100 miles & raped on 7 months before symptoms made their appearance. Some times excoriation takes place & ulceration follows. sometimes ulceration is preceded by a pimple. when the angle of the prepuce is acted on only by the matter, a hole is the consequence. when a chancre takes place on the skin it assumes a scaly appearance. sometimes inflammation takes place & phymosis or paraphymosis are the consequences when the inflammation is spreading. the chancre does not lose its appearance. the matter varies very much in its appearance, it is yellow sometimes green & sometimes bloody. Sloughs sometimes

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form in the venereal chancre Gangrene some-
times takes place it is 1 of the terminations of com-
mon inflammation. Chancres in most cases do not
spread rapidly, however large parts of the Penis
have been destroyed, by chancres ulcerating
as to the cure of chancres one of the most impor-
tant indications is to prevent the contamina-
tion of the system, & this is to be done by mer-
cury. Extirpation by the knife has succeeded
by reducing the ulcer to a simple wound.
Caustic has been employed, with the same
effect, however the best practice is to avail
ourselves of local & general applications
venesection & purging with calomel &c has
sometimes cured the chancre, the objection
to trusting to local applications is wholly
that before they act, the system is con-
taminated, sometimes the caustic is better
than the knife, as the caustic, destroys the
morbid parts & no more, however more bur-
den occurs after the treatment of caustic than
with red precipitate, the cause I cannot give
you but so it is. Dr Physick has always re-
marked this - the remedies for the cure of
chancres are mercurial. for this purpose a
variety of ointments have been prepared & used
the Ointment however should be varied, if
it does not succeed you must try another
the Red precipitate or Calomel mixed
with simple cerate is an excellent application

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Or it is more proper to sprinkle the part with a little of the dry powder, & cover the whole with a carbonate powder (plaster) we said if possible. If it is often in our way we said if possible to prevent it by Amputation per ganglion. Next might to be advised & attended, we said we inject in those cases. Sometimes a solution of corrosive sublimate in water. Sometimes Calomel in a solution of G. Mucic is used & sometimes Opium is added to the preparations. If any of these preparations increase the inflammation you must lay them aside. When the puer is greatly swelled Cold water &c is an excellent application. If Leeches can be procured they ought to be used however in some cases you cannot get the injection under the puer, under such circumstances you must divide the puer with a knife this may be done with Dr. Physick's knife in fistula in ano. If the tension under the puer is so great that you cannot introduce a knife in these cases you must dissect through & lay it open in this way. In those cases when the patient will not submit to this operation, ulceration will take place which might have easily been prevented by the surgeon. In some cases I have seen the puer adhere to the glans penis. 1 of the most difficult operations I ever performed was where this had taken place.

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In Paraphymosis, I have seen the glans penis ~~rotten~~
 pulsed off by the structure occasioned by
 the pressure being so great. This ought by all
 means in our power be prevented. We should give
 mercury internally. We may begin by giving 1 or 2
 grains internally every few hours. many other ways
 of mercury have been so used, but I prefer this in
 preference to all others. The Mercurial ointment
 may be used & the best way of doing it is to direct
 the patient to rub 1 or 2 drachms in his thigh
 every evening. we should also continue the mer-
 cury after the symptoms have subsided. The effect
 of mercury in curing this disease is to produce
 a ptyalism. which is to be properly attended to
 when you perceive symptoms of salivation coming
 on you must lay the calumet aside, & just before
 the mouth is well commence with the mercury
 again, which is to be regulated in this manner
 untill all the symptoms have subsided by these
 means you find the patient to be in convenience
 he may attend to his ordinary pursuits & go on.

Lecture 42

Bubo a swelling in the groin attended with pain
 arising from venereal poison. discussion
 is always to be attended at the same time that
 mercury is to be used externally & internally
 Mercurial Ointment is to be rubbed over the part

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On the inside of the thighs. Plasters to be applied over the buboes, in order to disperse, purges are to be used also. When the buboe is to be opened it may be done either by the knife or by caustic. The common Lapis septicus, may be rubbed over the part until they become black, afterwards an Opium plaster should be applied. The red precipitate is a very good stimulant for indolent ulcer. For buboe chancre is to be used internally during the whole of the local remedies. Sea Bathing has been recommended when scrophulous taint is suspected the cicuta is to be used largely / R. Cicuta 64 grs. Con Subly mercury 8 grs made into 64 pills, 1 every 3 times a day. **SYMPTOMS.** The secondary symptoms of Syphilis, in Lues Venerea, are, blotches on the skin ulcers of the throat &c. nodes are among the secondary symptoms of Lues venerea. Lues Venerea, shows itself about 6 weeks after the use of mercury for the cure of chancre. The sore throat occurs for the most part before the blotches of the skin they occupy the tonsils & soft palate, they are generally preceded by fever & pain in the head the blotches do not confine themselves to any part, but generally affect the forehead for the cure, mercury, the blue pill, nitric acid.

R. nitric acid ℥ij	} Dose a tablespoonfull several times a day
Mucil G. Arabie ℥ij	
Aqua. ℥ij	

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When Lapis Septicus is applied to ulcers in the throat, it is to be applied with a hair pencil after which it is immediately to be with a rag wrapped round a stick dipped into vinegar this will neutralize the caustic & prevent its spreading. The mercury is to be used & washed off after the clots have disappeared. Sore &c are cured by a long continued action of mercury, friction to prevent the mercury from entering the tone of the stomach. In common cases the nodes swell ulcerate & a scale of bone is thrown off and the parts heal blisters & incisions are to be made. Salivation & the other effects of mercury, are more durable, than effects from any other medicine. Sometimes a grain will produce salivation. The salivation is sometimes extremely profuse. The tongue swells, sometimes is protruded without the mouth. Inflammation of the salivary glands, sometimes Gangrene occurs & the cheeks slough off. exhibits a horrible appearance. To stop salivation sulphur has been used Opium also. Exposure to dry cold air has been found most successful. Mercury is indispensably necessary, in diseases which have run on for a great length of time. & notwithstanding the use of remedies in order to produce a new impression. In yellow fever it is also recommended.

Lecture 43. I never saw but 2 Cases of hy-
 draemia & Dr Wiseman who has used mercury very
 freely has not seen it since 7 years. I refer you to
 Pearson of attlee on this subject. But it is a prob-
 able opinion that they are frequent & I shall
 examine Dr Mathias. He states that mer-
 cury has a specific poisonous effect. He
 states that it is most analogous to venereal.
 I lament the appearance of this book as it will
 & has lessened the confidence of some in the remedy
 consequent to this doctrine, it is said venereal
 is a very rare disease. I shall canvass the evi-
 dence before you & you may judge for your-
 selves. I have told you the real morbid effects
 of mercury, one would imagine nothing easier
 or than to settle this question by experiments
 mercury stimulates & in some cases produces
 morbid symptoms, has not one of the symptoms
 of venereal, will it produce a chancre, or
 bubo. No, one excites venereal powerfully
 & a peculiar ulcer, other in sore throat, I have
 kept a patient with epilepsy under the continual
 effects of mercury, & in hepatitis for years &
 no chancre no bubo & not 1 symptom of
 venereal. I knew an old gentleman who has
 been 40 years under the use, has not 1 symptom
 described by Dr Mathias. In India when
 mercury has been used very freely for hepatitis

We have no instance of this disease except lately
 by very late. Let us see if mercury will excite a
 Bubo. There never was a case like Bubo produced
 this is never the case unless the venereal action
 previously existed. There is no such a thing as
 this except such as has been described by Hume
 in Boer & others, the former says it is curable by
 exciting another disease. & in some cases the mer-
 curial fever interferes with the healing of the Bubo
 & many other cases interfere with the healing process
 but the mer fever is a most frequent one, & Hume
 & Pearson say we must wait 8 or 10 days, un-
 til the fever subsides, & then go on with mer-
 cury. & they both state it is difficult to reex-
 cite the mercurial disease. The same remarks
 are applicable to the throat. now if the sore-
 throat, were mercurial we should have no oc-
 casion to resort a 2^d time to mercury but in-
 stead of this mercury will cure, instead of being
 the cause. All I shall add is that, when in
 these cases, mercury disagrees with the consti-
 tution suspend it, again resort to the remedy.
 Whatever destroys our confidence in this remedy ought to
 be opposed. a few words respecting the venereal disease being
 rare. It is a point to be considered, as that ulcers sometimes
 form on the testis & if they occur after suspicious connection
 we are liable to mistake them for venereal. If there is any doubt
 on this point, mercury will cure them promptly. & the only
 difficulty is your patient is liable to a sore mouth
 in 2 or 3 days. on the other hand a contrary mistake would
 be dangerous.

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of little vesicles around the corona glandis 10-12
 containing thin pus & is cured by puncturing & washing
 with lead water a few days and when the skin begins
 to skin over, with Brandy. I am bold to tell you
 that when you meet with 1 case of this kind you
 will have 20 of the venereal. I have frequently been
 called to cure secondary symptoms, after treatment
 without mercury. I earnestly recommend Hun-
 ter's work. I am by no means convinced that the sal-
 ine preparations of mercury, are more apt to excite
 mercurial fever than blue pill. Colmel is my
 favourite next blue pill, & in chronic cases
 corrosive sublimate with cicuta or Opium. A
 Physician at Vienna has cured 4000 cases of
 venereal by corrosive sublimate without salina-
 tion. W. Libbington of London cures Gonorrhoea
 in 48 hours by corrosive sublimate 3. grs 1/2 gr.
 at night &c. In using mercurial ointment the
 patient is to rub it over his thighs &c. During the
 use of mercury the patient should be confined from sex
 as it interferes with its use. Chancre, when cal-
 omel affects the bowels, use the blue pill, Plenty solution
 for sore throat. Mercurial fumigations have lately
 been revived by Mr Abernethy, this plan used
 on the continent of Europe, was found to fail. Mr
 Abernethy has cured venereal sore throat in 60 hours
 Mr Pearson is highly favourable to this form, but
 when the body is covered by venereal ulcers he recommends it

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But fear, it will not be sufficient, to secure the constitution against a re-attack. I agree with him, & in this state, the rubbing of calomel about the jaws to be the best remedy (application) externally. When using mercury in the venereal disease & symptoms become stationary, we are to ascertain if it is from cold, dyspepsia or essential disease. In the latter case suspend it & if necessary give tonics.

Lecture 44.

I have concluded the history of Diagogues, & I have not concealed from you any of its bad consequences you must be on your guard against certain constitutions. I come next to that of a class of medicines called Emmenagogues. they are those substances capable of promoting the menstrual discharge. It is doubtful whether there is any particular determination towards these vessels. It is sufficiently certain that there are many substances, which when received into the stomach have their stimulant operation more particularly determined to one part than to another. the kidneys for example the bladder & other organs. It seems probable a priori, that there may be substances disposed to act more particularly on the Uterus. yet experience does not confirm this supposition.

then being perhaps no proof of any of the substances
 styled emmenagogues, producing their effect from
 any specific power. Many articles have a tenden-
 cy to act on the uterine system. and there is
 not one old woman, but what knows some-
 emmenagogue. the Catamenia is not a flow of blood
 but a fluid sui generis secreted by the uterus. Dr
 Rush says never lose sight of Dentition, in children
 & never of the catamenia in women. By re-
 tention of the menses (Chloris) is meant where
 the menses do not flow at the usual time (14616
 in this country) & is the cause of very disagreeable
 symptoms which I shall enumerate viz head-
 aches, listlessness to motion & fatigue on the least
 exercise. palpitation of the heart, pains in the
 back loins & hips, flatulency & acidity in the sto-
 mach & bowels & many symptoms of dyspepsia
 the appetite is singularly depraved. Lime chalk
 & other absorbents are greedily eaten when the
 accustomed food is rejected. As the disease ad-
 vances the lips lose their colour. the eyes are
 encircled with a livid areola. the face becomes
 pale assumes a yellowish hue, & the whole bo-
 dy has a Phlegmatic (Leucophlegmatic) ap-
 pearance, with every indication of want of power
 & energy in the constitution. the feet are af-
 fected with oedematous swellings. the breathing
 is hurried by the slightest exertion, the pulse is quick

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but small the patient is affected with various symptoms of hysteria, cough & sometimes continued hectic fever. Some suppose the cause of chlorosis to be debility or laxity of the constitution in general, & of the uterine system. Dr Cullen considers the cause the cause. Dr Hamilton attributes it to a depraved state of the alimentary canal, because exertion precedes the disease. Dissections are in Dr Cullen's favour. But Doct Hamilton is the best mode of treatment. As well might Dr Hamilton say that a scrophulous knee joint had its seat in the stomach. Purgings are useful in this disease when the appetite is vitiated &c.

Here Purgings & afterwards tonics are useful with exercise, delightful pursuits. Dr Ruoh in some cases used venesection, but this is seldom necessary. the warm & cold baths. Stimulants, Blisters &c are often useful. Electricity has also cured it.

If it arises from acidity, alkalies, magnesia chalk &c are to be used. when the Catamenia (or menses) have appeared & are interrupted it is called a suppression. the suppression of this discharge is supposed to arise from debility of the uterine vessels or deficiency of action in them. but the most frequent cause of suppression is cold. It is also a symptom of other diseases, either acute or chronic.

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1st If it arise from Catarrh remove it. & the supply
 will be removed. It is often a symptom in Pth
 is. In Leucorrhoea it is sometimes a most obstinate
 symptom. As Fune says we need not hope for
 a cure at the end of 9 years. Particular Emmen-
 agogues. Aloes. this cathartic it has been alwa-
 ys remarked is supposed to operate more peculiar-
 ly on the large intestines. & its stimulant oper-
 ration it has been imagined is thence propa-
 gated to the uterus, hence its celebrity as an em-
 menagogue. though what efficacy it has prob-
 ably depends principally if not entirely on
 its cathartic power. As it is known however that
 a stimulant effect however produced in neigh-
 boring parts, seems to be in some degree prop-
 agated to the uterine vessels, & hence several me-
 dicines exert in emmenagogue power, greater than
 can be ascribed to any general action they
 exert on the system. It is this that some substan-
 ces belonging to the class of cathartics have been
 supposed to act, their stimulus being commu-
 nicated from the large intestines to the uterus.
 This is the case with the present article (aloes) under
 our present notice. it stimulates principally the
 rectum from thence communicated to the uter-
 ine vessels. It is given under the form of pill
 tincture & frequently in combination with other
 remedies as with Iron Rhubarb &c &c &c

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Dr Galager says that pills of Aloe are very useful in amenorrhoea, he combines it with carbonate of Iron this is the formula of Hooper's Pills. —

R. Sal. Martis. Sulphate of Iron - 3ss } 3 or 4
 Made into Pills } } taken
 as large as a pea } Sinapiers 3ss } at Bedtime

Hydragrym. Quicksilver. The preparations of this metal are occasionally employed in Amenorrhoea. Colomet is the preparation generally used more frequently however in combination with the emmenagogues, to promote their action than alone. Dr Barton's favourite remedy was in salivation. It is given as an alternative. Heliborus Niger. Black helibore. this is a powerful cathartic. It was highly recommended by mead as an emmenagogue under the form of tincture ʒi of this being given at bed time. This was given by melampo to King Cretus's daughter, hence the tincture name is made in the following manner

1 R Black helibore ʒiv. } Digest 7 days then
 Cochineal — ʒss. } strain dose as above
 Diluted alcohol ʒijss. } mentioned —

Dr Barton & Chapman speak highly of it. I have myself employed it beneficially. I gave 30 gutta every day. given some times before the expected catamenia. Dr Physick found it to purge in large doses

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Friction to the lower extremities in this way it is a most valuable medicine. Some stimulant are employed as emmenagogues. Guaiacum. This is given in the form of volatile tincture. & this very elegant & efficacious tincture is made in this manner
 R. Gum. Guaiac. ℥iv } Digest 7 days thru filler
 Ammoniac Alcohol ℥ss } through paper. Dr. Lewis who has great experience & who was a teacher of midwifery, highly extolled it. I have used it without any advantage. Polyga Seneka. This is generally employed as an emmenagogue, it is given in powder & decoction. R. Pol. Seneka ℥i Boil it until $\frac{1}{3}$ escapes. it may be combined with cinnamon or orange peel. The dose is ℥i Dr. Chapman gives ℥ij Every hour it is useful. Secale Cornutum. Ergot of Rye. The Professor of Midwifery has already informed you of the emmenagogue virtue of this plant, under our consideration. Dr. Ekerside made a number of experiments on animals with Ergot. In several it caused abortion. I employed this 3 times in 1 case & was completely successful, but in the other 2 cases I did not derive much advantage. Dose 15 grains every evening at bed time. Sabina. Savin. A stimulant the operation of which has been supposed to be powerfully directed to the urinary system. so much so that particularly it is said use it for procuring abortion to hide their shame.

Dr. Barton mentions a case in which it procured abortion. The leaves are used. It resembles Seneca in its promoting the secretions. Never give it when there are febrile symptoms. Dr. Barton used it in Rheumatism with advantage of which he will inform you. externally the powder of the dried leaves is used as an escharotic. I mixed with Card as a stimulant to excite suppuration from inflamed parts or surfaces. Many more might be enumerated as Opium, Aconitum, &c. but it is useless to load your memory with them. Fer. Ferum. Iron. the power of Iron as a tonic may be supposed capable of being exerted on the entire system & of removing suppression of the discharge, arising from deficient action, more especially when this is connected with a state of general languor & debility. In such cases accordingly it is employed frequently as an emmenagogue. Dose of carbonate of Iron from 5 to 10 grs. daily. also given in the following formula

℞ Rubigo Ferri 5 or 10 grs Aloes 5 or 10 grs	} Given once or twice a day
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Anthelmintics. The term anthelmintic is derived from the Greek. Anthelmintics are medicines adapted to expel worms from the alimentary canal. this class I shall greatly abridge. The worms which are found in the human subject

may be reduced to 3 general classes viz the Lumbricoides, Tenuis, Toenia & oscaris vermicularis.

Ascaris Lumbricoides, or round worm, is much more commonly found in the intestines of children than in persons full grown or advanced in life. it is very usually met with in the first but very rarely in the 2 last. taken full grown the Lumbricoides is about 12 inches long when first discharged they are of a semitransparent color & so on become brown. they are generally found in the jejunum. The Lumbricoides. It is known to differ from the common earth worm, but practitioners in this country have made little enquiry into the circumstances upon which this difference depends. the 2 species of worms if attentively examined, will be found to differ a good deal from each other in their external appearance. The Lumbricoides is more pointed at both extremities than the common earth worm. The mouth of the Lumbricoides consists of 3 rounded projections with an intermediate cavity. the mouth of the earth worm consists of a small longitudinal aperture situated under the smaller surface of a small rounded head upon the under surface too of this worm, there is a large semilunar fold of the skin into which the head retreats, or out of which it is elongated, which is entirely wanting in the Lumbricoides. the anus of the Lumbricoides opens on the under surface of the worm a little way from its posterior surface extremity.

by a transverse curved fissure the anus of the earth-worm opens by an oval aperture at the very extremity of the worm. The outer covering ^{skin of the} or Lumbicoides is less fleshy & strongly marked by transverse rugae than in the earth worm. In the latter there is often to be seen a broad yellowish band surrounding the body of the worm, but in the Lumbicoides this is entirely wanting. On each side of the Lumbicoides there is a longitudinal line very well marked in the earth worm there are 3 longitudinal lines on the upper part of its surface but these are so faintly marked as to be hardly observable. The Lumbicoides has nothing corresponding to feet, whereas the earth worm has on its under surface but more strongly marked towards its posterior extremity, a quadruple row of processes on each side, very sensible both to the eye & fingers, which manifestly serve the purpose of feet in the locomotion of the animal. The internal structure of these 2 species of worms is also extremely different. In the Lumbicoides there is an intestinal canal nearly uniform & smooth in its appearance which passes from 1 extremity of the worm to the other. Near the head of this worm the canal is narrower than it is any where else & somewhat distinct in its limits, this may be considered as the Oesophagus. In the earth worm there is a large

and complex stomach, consisting of 2 Cavities. & the intestinal canal in the latter is likewise larger & more formed into sacculi than the former. The parts subservient to generation in these 2 species of worms, differ very much from each other. in the Lumbricoides there is a distinction of sex the parts of generation being different in the male & female. in the common earth worm the organs of generation are the same in each individual as this worm is hermaphrodite. The appearance of the organs of generation is extremely different at first sight in the 2 species of animal from the other. there is an oval mass situated at the anterior extremity of the earth worm resembling a good deal the medullary matter of the brain. In the Lumbricoides this substance is wanting. these are the principal differences between one species of animal & the other, which are obvious, upon a very moderate attention to each other. many other differences would doubtless be found by a person who might, choose to prosecute their anatomy, distinctly. the length of the Lumbricoides is generally 5 or 6 inches in length, & the thickness of a goose quill. Ascaris. the ascaris is a very small worm which is often found at the lower end of the rectum in children & even more frequently in adults. than is commonly imagined.

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It is of a white colour & about $\frac{1}{16}$ an inch in length at its extremity where its head is placed it is a little narrowed & at the other extremity it terminates in a long very fine transparent process. These worms as before mentioned are found in the Colon & rectum in children occasionally found in the vagina & uterus cause a violent pruritus, also in the Kidneys & Bladder &c on exposure to air by voiding the excrement they immediately hide themselves in the faeces.

3^d *Tenia*. Tape worm. of these sometimes only 1 is found. but sometimes a number of them are found. Dr Barton has seen 18 discharged in succession. they are composed of flat joints terminating in a round tail, each of which joint is a distinct animal. There are 2 species the 1st have mouths around the margin. It is endemic in some parts of Europe of the 1st species the joints separate & form the *Cuscutaria* after which they do not appear to retain their position any length of time but are rejected shortly after this separation takes place. They are sometimes very long. some even 36 in. &c. If the head is expelled the worm is soon regenerated. they occupy the small intestines. but sometimes get into the stomach. This worm has been found in the dead foetus. which has excited the minds of the Physiologists. a variety of opinions have been advanced on this subject. It is supposed they occur most frequently between the age of 5

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to 10 years. I refer you to Mr JB Cooper of London for an account of this subject. Gentlemen I consider this class of medicines of great importance. The vulgar ascribe too much to worms. yet I must say Physicians ascribe too little to their effect. The greater part of our nervous diseases are caused by them. it is not stated that any particular constitution are more liable to them, however they are found to affect weakly children more than robust ones. **SYMPTOMS.** Swelled abdomen. Offensive breath, swelled upper lip, also & columna nasi pruritus of the nose. pale urine. pulse various. Lax or costive state of the intestines. bad or ravenous appetite mucous stools starting in the sleep & largeness. In the advanced stages the mucous stools are increased subsiding delirium & death. the late Professor was to remark. they were attended with so many symptoms that it was often difficult whether to ascribe some diseases to the influence of worms or to other diseases (or causes) Febris Perminosa. Worm Fever. Some of the most eminent authors ascribe some epidemics fever to worms. Dr Rush acknowledges their presence in fever but thinks they may be an effect of the disease not its cause. That is the same cause that produces the disease as also a tendency to the production of intestinal worms. he further adds worms increase the danger of fevers.

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I agree with him in part, but I believe they are the remote cause of fever. Persons of weak nervous habit, this fever is a kind of intermittent. Dorsey has never been able to distinguish it. Dr. Cooper has now evacuated the patient suffers greatly by the existence of worms. A surgical case will suffice to show that worms are sometimes the cause of disease. Peritonaeal inflammation has been caused. a gun shot wound through the abdomen, which wounded the intestines, in which a number of worms were discharged into the abdomen & they caused Peritonaeal inflammation, as before mentioned they produce diseases of the class nervous. Epilepsy. In the management of this disease we should always enquire respecting worms, as it is often cured by anthelmintics when all the usual remedies have failed. I relate of a case which I shall send to you. Of a black boy. Symptoms. There was palsy of the optic nerve his eyes dilated by strabismus. he gazed incorrectly. I placed a dollar and lighted candle before him & he could see any object. I administered drastic Cathartics without effect. I then resorted to an emetic & during its operation a large worm was evacuated & the power was the worm expelled then the negro got better. I read this case to show how important the stomach is of producing diseases. Corea St. Viti. this is another disease caused by worms.

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Hypochondriasis. This is very frequently caused by worms. Dr. Astruc has had a case of this kind Hydrocephalus Internus. In this we should always attend to worms for it is difficult to determine whether it proceeds from some other cause or from the irritation of worms. That it may be caused by worms cannot be doubted when we reflect that Mania is often produced by them. I have seen Strabismus & all the Symptoms of Hydrocephalus Internus by worms. Principal Anthelmintics. Doct. Hamilton says the utility of such anthelmintics, as have been found to be most beneficial has in my opinion been in proportion to the purgative power they possess. After a course of anthelmintics, which are not direct cathartics, it is usual to give a full dose of a purgative which is then repeated 2 or 3 times. & to this a considerable share of the effect when worms are evacuated is properly to be ascribed. Calomel with jalap Gamboge, or Scammony is the cathartic usually employed. Emetics have occasionally evacuated them by the mouth when in the stomach. The case Welsh relates was cured by emetics as before mentioned. as soon as the worms are dead they cease to be irritable. Anthelmintics have been supposed to produce this effect (expelling worms) various modes of operation some of which are in coarse rough particles as Iron & tin filings, or consist of sharp spicules.

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as the down of the dolichos purging are sup-
 pressed by the mechanical operation of these
 to dislodge from the mucus of the intestines the
 worms which are evacuated. Other substances
 ranked as anthelmintics, seem to have no
 other property than bitterness. By this qual-
 -ity they have been supposed to prove noxious
 to these animals. It has also been immu-
 -gined that these so far as they prove use-
 -ful, do so by restoring the tone of the diges-
 -tive organs. The production of worms being
 supposed to proceed from debility of these
 organs, in consequence of which either
 the food is not properly assimilated or the
 secreted fluids poured into the intestines
 are not properly prepared. Calomel several
 of the preparations of mercury have been em-
 -ployed as anthelmintics. Calomel is entitled
 to the preference, not only from its direct
 action as a mercurial but also on account
 of its action on the intestinal canal. It
 is given by itself in a dose of 16 or 12 grains
 to an adult in smaller quantity when com-
 bined with Rhubarb or jalap. Dose to a child
 6 grs at Bed time. It is also generally the base
 of the cathartic usually administered
 after other anthelmintics have been continu-
 ed for some time the following is the fashionable

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London Anthelmintic / R Calomel gr iij
 sulphate of Iron gr i m℥ pulv. to be repeated
 for 3 nights successively. & then an active
 purge of calomel & jalap Rhubarb &c to
 carry off

Lecture 45

Chenopodium Anthelminticum. Worm seed
 Jerusalem oak. This plant grows plentifully
 in the U.S. & is much used for worms. The
 whole plant has a powerful smell of which it
 is very retentive. Its taste is bitter with much
 aromatic acrimony. The whole plant is em-
 ployed the leaves & seed may both be employed
 but the latter are generally preferred & I believe
 the most powerful. To young children you
 may give it in the form of tea, give it for
 3 mornings successively. Then omit 3 days
 & give a cathartic during the interval & if
 necessary repeat it again. The dose of the oil
 is 5 grs. To a child under 2 years of age.
 after giving 3 doses a purge of calomel is to
 be given. it is to be repeated again if neces-
 sary to a child of 5 years of age you may give

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from 10 to 15 guttae because I think they act more
 on the worms themselves than on the stomach
 & intestines. I have long used this medicine
 with the most decided efficacy. Dose of the
 powder a tablespoonful to a child. it is always
 given in expressed juice. *Spigelia Marilandica*
 Indian Pink. Caroline Pink Root. a native of
 N. America. the root & stalks of this plant are
 used in medicine, on the supposition of their
 anthelmintic power. they have a bitter taste.
 In a large dose prove purgative & also some
 times narcotic. Every part is anthelmintic
 but the root most so. Dose 5 to 10 grs to a
 child & from 20 to 30 to an adult. The in-
 fusion is made by taking $\frac{3}{4}$ i of the plant
 & water & dose 1 table spoonful 2, 3 or 4
 times a day to children & to adults a wine
 glass full. In made the follow-
 ing experiments, with the lumbricoides in
 decoction of the leaves they were kept alive
 4 hours. In a decoction of the stems $3\frac{1}{2}$ hours
 in a decoction of the root but 25 minutes.
 In some instances some very alarming
 symptoms have occurred from its use particu-
 larly nervous affecting. Some Physicians
 suppose these symptoms to arise from the
 ill qualities of a root growing along with
 the *spigelia* & not being separated from it.

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I do not however undertake to say any thing of its pernicious qualities but I think it might be placed among the narcotics. Mr. Thomson's experiments have shown, that it produces in a great degree all the symptoms, of Opium. (His experiments) In large doses he found it to affect the pulse. He took ʒi in 3 minutes his pulse rose from 76 to 78. Then to 80 & was reduced afterwards to 40. By paying proper attention it to be given. Dr. Duncan observes he has known ʒss of Spigelia produce as much purging as (Spigelia) as Rhubarb. Dr. Home of Edinburgh opposes the idea that it possesses any narcotic power, in fact I feel myself at a loss to determine. but I believe it ought to be combined with cathartic medicines. I think Senna a very good cathartic. for that purpose Dr. Gallagher of this city, has always combined it with Senna & with the most decided efficacy. It seems the Practitioners of this City have took up the practice & use it in this manner I have mentioned a number, but as I told you before I intended to abridge the list very much. I shall omit mentioning many but will go on to mention **Melia Azadirach**. Pride of China. Poisonberry tree. China tree. The bark of this Asiatic tree now naturalized in the Southern parts of the U. S. is a powerful antheimetic Dr. Parter has often employed it & he believes it is of the most useful.

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articles of the class. It is given in decoction & infusion. The bark of the root is more powerful than that of the stem or branches, though more especially adapted to the destruction & removal of the common round worm, *lumbicoides*. It also exerts its power over toenia. Its action is similar to the *spigelia*, in certain cases is an emetic, & like the *spigelia* should be used with prudence in the management of young & delicate constitutions. I might mention many more but I think it useless to have too many in a class, where from few you can obtain an anthelmintic power, but I shall mention two as candidates for this class. *Heleborus Foetidus*. & Cabbage tree bark (*Geoffrea Inermis*) Of the first the leaves are the part used. of the latter, the bark. This has an unpleasant smell with a sweetish taste. It has been considered as 1 of considerable power especially in expelling the *lumbicoides*. It is usually given under the form of decoction & is being boiled in 2 lbs of water to 1 lb and from 2 to 3 times of this being given as a dose to an adult. It usually operates as a cathartic & if an over dose is liable to produce sickness & vomiting, the same symptoms are said to be induced by the incautious drinking of cold water during its operation. When they occur from either cause they are relieved by a dose of *℞ Recini*.

The first of these is the
 fact that the system of
 the world is not a
 simple one. It is a
 complex one, and it is
 one that is constantly
 changing. It is a system
 that is not only
 changing, but it is also
 growing. It is a system
 that is not only growing,
 but it is also
 becoming more and more
 complex. It is a system
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 but it is also becoming
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 difficult to understand.

Terminum. Iron. I shall mention some of the preparations of Iron as I am induced to do from its high recommendations. The following is a good one
 $\left. \begin{array}{l} \text{R. Rubigo Ferri } \mathfrak{z}ij \\ \text{Sal Martis } - \mathfrak{z}i \end{array} \right\} \text{divid into 12 Powders 1 of}$
 which is to be taken every morning. for a child you may give \mathfrak{ss} a powder. Dr. Gallagher Keble & others agree that it is one of the best remedies as an anthelmintic. **Muriate of Soda** (Common salt) this is an ancient Remedy it was known to Celus. a tea spoon full every morning to a child of 2 years old 3 times a day. Doct. Rush disguised it in cochineal. Dr. Keble in molasses. but this last is not a very good vehicle. The preceding remarks are adapted to *Cumbicoides*. **Stannum. Tin.** Tin is reduced to a powder consisting of small rounded particles by heating it nearly to its melting point & agitating it briskly, either this powder or what has been recommended in preference, the metal in filings is used as an anthelmintic in a dose of $\mathfrak{z}ij$ or $\mathfrak{z}ij$ or in larger quantity. It is repeatedly taken in the morning & a cathartic is afterwards administered. Its effect has been supposed to be mechanical, so far as it operates in dislodging the worms from the mucus of the intestines by the gitting of its particles.

Ascarides. Dr Heberden shows are the least troublesome. However it has been remarked that all the symptoms have resulted from these or from the former. the symptoms swelling & itching of the rectum, griping, tenismus, disturbed sleep I have known a gentleman to be frequently annoyed with them, & a troublesome itching always about the anus always occurred. These worms sometimes cause mania. Epilepsy. The treatment the same as for the former when tenismus attends a glyster of warm milk & oil will be proper. Dr Heberden has found this composition very beneficial. Rhine Pina is often found useful this is made in this manner.

Take of Socotrine aloes — 1 Pound } Powder them
 White camella — three ounces }
 Separately, then mix them 3℥ of this Powder to a pint of brandy. Express & evacuate the worms from the intestinal canal, but do not kill them. when tenismus attends use glysters Nicotiana Tabacum. It is a well established fact that Tobacco shows its antelmintic effect, even when it is externally applied to the body. Camphor. as it is so destructive to other animals, has been used to destroy worms and it is generally injected in the form of camphor tea which is made by taking 3℥ of Camphor, Pour a sufficient quantity of alcohol on this to dissolve it

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Then pour boiling water over it, this is given in the form of injection & has brought great numbers of ascarides away. a solution in milk often discharges ascarides. For the removal of this species of vermes whose principle residence is in the rectum, from which it sometimes however emigrates into the vagina, occasioning the most insupportable pruritus, enemata of camphor have been found among the most powerful means which have yet been employed. Bitters may also be employed in the form of enemata with good effect. Various Medicines, Rue, Sassa & other bitter herbs have been recommended as also noxious as also various Mercurial preparations. Oleum Terebinthina. This in my opinion is a very good anthelmintic. It ought to be taken in the morning on an empty stomach, a wine glass full to be taken during the day, in large doses it purges & by that means prevent any tendency by of its passing off by the urinary organs the practice would seem to be rash, but by practice will decide to the contrary. by its use it brought away

(He probably exaggerates) It is also found useful in Lumbricoides. Arsenic. Dr Fisher of Massachusetts, who informs us that he has

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frequently used this as a powerful anthelmintic many more might be mentioned, but I am sure with those mentioned already you will be able to cure your Patients. *COLMIA*. a gnawing sensation of the stomach is a more constant attendant, than on any other species of worm. The Mineral preparations are useless. Calomel has been taken in large doses. the corrosive sublimata is much better. Dr. Rush recommended the *Rubigo Ferri* to be repeated as often as necessary in proper doses. Dr. Hartshorne found it very successful in one case & thinks it an innocent medicine. Iron Filings. has been very highly recommended. dose 1 Teaspoonful to a child of 5 years of age. Tin Filings. a teaspoonful of this is also very useful in tape worm. drastic purgatives ought to follow it, as Dr. Fisher of Massachusetts used it with great success. his form of preparing it was an amalgam of tin. 5 pts melted tin 2 of chlorine dose 15 to 20 grs 2 a day. if the bowels are not open calomel must be given. a case occurred in N York. where 45 ft. of Tinea was evacuated by the filings of tin. as it was the principal ingredient in the preparation. The vegetable anthelmintics adapted to this species of vermes, are very few. *Dolichos Pruriens* Cowhage E. & W. Indies, the down which covers

The outer surface of the pod of this plant consists of very sharp spicula, and is the part used as an anthelmintic. It has been much used in the W Indies more indeed than in any other part of Europe. Dose 2 teaspoonfuls for an adult and one half the quantity for a child, given in syrup or Molasses repeated 2 or 3 times, acting cathartic being afterwards exhibited. Its action is entirely mechanical. I have no experience in its use. I have seen few cases which I could without it. The Scrobithina has been very highly recommended, & I believe is a good remedy, particularly for Tinea. I had a case of Tinea, when the Person said he evoked 27 yds of worm. From the use of Scrobithina. Erratum. (Scrobithina arsenic placed under the head ascaridis, ought to be placed under Tinea, a mistake in writing.)

Lecture 46

Of Erisipastics. I shall make this term include three different degrees of erisipastics. 1 Rubefacients. 2 Vesicatory & 3 Cantharics. as they only evacuate locally, I do not hesitate in placing them at the bottom of our list, as they possess a stimulating property. they form a kind of connecting link, between

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The evacuantia & stimulantia. 1 of Rubefacients. there are a thousand modes of producing a rubefacient effect. Frictions in cases of drowned persons, palsy &c. in pneumonia & typhoida, frictions have been found very beneficial among the chemical remedies, heat may be used and is generally attended with good effects, bricks, hot coals &c. these articles have been recommended when speaking of diaphoretics. but it is on a/c of their local stimulant effects. In India them here, the practice of burning with moxa, is still practiced on the continent of Europe. however it is only practicable in extreme cases. Dr. Physick employed it in a case of asphyxia with good effect the use of warm water has been used in many cases as

&c. but I am inclined to think that a blister would answer better. in low cases of fever it has been used I prefer for this purpose heated cats &c. as it retains the heat better, the water cools too soon and really leaves the body in a colder state, than it was before the application of cloths. particularly if they have remained on a short time. In hysterical cold feet are an attendant, and is relieved by warm bricks, water &c. In Gout of the Stomach heat applied to it is an excellent application

In Henuerania I have by the application of heat relieved the Pain. Several chemical preparations have been used as volatile alkali of this and olive oil parts you make an irritating liniment. It is found beneficial in inflammatory affections of the Throat. It is a very popular remedy in this country. In some cases of Rheumatism it has been found beneficial. one of the most beneficial rubefacients we have is the Plum-Scrub-thin. In inflammatory affections of the Throat nothing is more serviceable you know by exciting inflammation externally. you relieve inflammation by mixing Pl. Scrub-thin 3℥. or 4 ounces & camphor 3℔. you have what is called whitehead's essence of mustard, & by some simple additions, you obtain Dittol's drops Turpentine has been used in burns &c. we are indebted to Dr Kentish for this practice. It ought to be carefully applied to the diseased part, & not suffer any of the ointment to get on the sound Part. It has, in a great measure got into disrepute, with some practitioners, in consequence of their slurring way of applying the ointment. The odour of the medicine is best disguised by, ℞ of oil of rose.

I knew it to save the life of a child, by
 immersing it in a bath of turpentine. I
 might here mention all the essential oils
 as Rubefacients, but I do not wish to add
 to the list. I here ought to notice can-
 phor. but as I spoke of combining it with
 turpentine I shall here pass it by. I
 do not intend to forget the Tac. Emetic
 as I observed once before, it was a rubefa-
 cient and a very powerful one. by sprink-
 -ling a little Tataric emetic on a plaster
 of Dillenburg, and apply it on the part
 it will in a few hours time produce a great
 irritation, when it has continued long enough
 take off the plaster. I shall notice some of
 the cataplasms, of these I might enumer-
 -ate many but I shall only notice a few
 the most simple of these are the fumi-
 -ous acetates. salt dissolved in vinegar is
 often used in cases of children. when we
 wish to add to the irritating properties
 of the plaster, we must use garlic, hor-
 -Radish &c. The former is preferable to the
 latter. but a mustard is better than either
 in cases of extreme debility & in cases of
 fever, when the system is in a low state
 a mustard 1 part Rye flour 3. & a sufficient quan-
 -tity of vinegar. Mf. Cataplastm. and applied

are found very beneficial. this is my common application in those cases. In the most extreme cases of Gout apoplexy, coma &c we used mustard & Rye flour in equal parts as mustard and vinegar alone. I have more than once however seen gangrene to result by the application of the latter. So I would advise you to be cautious in its application, you ought to examine frequently and when redness appears take it off. I have used the Cayenne pepper with great advantage. We are next to speak of Vesicatoria. They are those medicines which when applied externally, produce a discharge from the skin. There are many articles which produce this effect; all those which I have noticed as Rubefacients, increased to a certain degree, produce a discharge from the skin, but we will mention those which are more properly called vesicatories.

Cantharides. In the natural history of these insects, I refer you to the different writings on the subject. In France Spain & Italy they are very plenty. it appears they were known to Hippocrates. The Arabians took more pains to discover their properties than their predecessors. They found their use in apoplexy & Lethargic cases no particular directions are necessary to make the plaster - only be careful to press the plaster well in the unguentum, which is previously spread on leather &c.

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By not paying attention to this particular, not a sufficient quantity of fluid will adhere to produce the desired effect. in many cases the unguentum cantharidis may be applicable. this is to be made by adding finely powdered fluid to unguentum Basilicum until the ointment can take up no more. this form may be particularly applicable to the eyes, when affected &c for the purpose of expediting the healing process. The spirit of Turpentine has been used by Dr Hawthorne of this city. I have used it and found it to assist the blisters very much. The part is to be wet with spirit & the blister sprinkled &c. Sometimes gause has been used in order to prevent the guar, from a idea that the fluid was absorbed &c when using of cantharides this is wholly unnecessary, as respects the dry place. I cannot say that gause is really necessary, it is essential to sprinkle vinegar on when it is necessary. the average time for a blister to remain on is from 6 to 8 hours, you will recollect however, that on the head it must remain on 24 hours. The water discharged is different from that of the serum of the blood. **Blisters**. like bleedings are applied to certain stages of every disease. Dr. Percival

their application under 3 different heads
 1 when the action of the muscular fibres is too
 2 when the action is irregular. 3 when the action is too strong. this includes every state of the system. In Fevers Blisters have for many years been considered as some of the first remedies

They were once used in every stage of fever, but it has been found that they do little or no good, in the first stages of fever. Dr. Rush says when the system is prepared, the act of a conductor to carry off all morbid matter &c. if applied too early or late they are not found to be of great service. I believe that much harm has resulted, from applying them too late. The blistering point Gentlemen I do not wish to consider as a mathematical point but after the proper remedy as venesection & purging &c. have been used then comes the use of blisters. It makes no difference at what point the system is, as the application is to be carried to the extent of the violence of the disease. Does yellow fever require more bleeding than any other disease? why not more blistering? I have in the yellow fever frequently applied as many as 10 blisters. in Phlegmonia with general or local inflammation blisters are used. you sometimes generally apply a blister to the stomach, whereas to apply a blister on each wrist, will produce the same effect. Dr. Cullen says too much has been ascribed to the discharge produced by the blister he says they act rather antispasmodically than that they act antispasmodically I don't deny the

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that fever is produced by spasm I do deny —
 the phrase that they act by equalizing excitement
 I also reject but will say that they act in
 a different manner. You know by exciting
 inflammation externally you relieve it in-
 ternally. yet the degree of inflammation
 is the same. how it is I cannot say but
 so are the effects of the result. In order to
 prevent strangury as it some times occurs
 and where barley water gun arabic tea
 is also you may use them. but in
 most cases they are not necessary. the
 best remedy I know one to be preferred to
 barley water is gun arabic. tea is an
 antispasmodic glyster and it generally relieves
 that spasm. seems very irregular in
 dyspepsia & fever (cancer). I remarked the
 utility of Rubefacients, and in some of
 those low cases blisters will not rise &
 under those circumstances they gene-
 rally terminate in gangrene. when
 there is any doubt as to life or respects
 the blister not rising, a consequence of
 the state of the system being very low in:
 in those circumstances you must ap-
 ply them to the upper extremities, as they
 have been found to retain the power of
 life much longer than the lower. In
 the phlegmatics they are found highly
 beneficial in those cases then evacuating
 seem to do good, by stimulating the vessels
 of the skin after rally &c. In all cases you
 shave the head and apply a blister externally

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[illegible]

In Pulmonary Consumption they are good, and in some instances have been attended with the most happy effects by applying them on the throat.

Lecture 47

In Cynanche Trachealis after bleeding
emetics & purges a blister is of ~~extra~~
advantage. In all other ariginous
affectings. In Cynanche Parotidea
when the testicles inflame
the application of a blister is recommen-
ded. In Scurlatina Dr Barlow recom-
mended a blister behind the ear, and
in all diseases in certain states, they

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act by evacuating & by a specific in-
 sion? Blisters applied immediately stop
 gangrene. Dr Physick always resorts to
 blisters. It has universally succeeded
 a stop is placed over the living & gangre-
 nous parts, this will put a stop to Gan-
 grene, except in the gangrene of the toes
 in old people. Dr Dorey says he has
 put a stop to mortification, by a
 blister even in a case of this kind. I
 shall now commence to speak of
Lytta villosa or potatoe fly (vide
 Cox's dispensatory) first introduced into
 practice by Dr Chapman of Chester
 County. Records procured from the potatoe
 vines of Dorchester of Massachusetts

Dr Schell made this the subject of
 his inaugural essay, made experiments
 and found that this produced blisters
 in a shorter time than the Spanish
 fly. of the powder he made a plaster
 that produced a blister in 5th hours
 and some in 3 hours, and that they are
 superior to the *Melba vesicatoria*

The saturated tincture pro-
 duces vesication. The tincture & powder
 both produce strangury &c
 Dr Dorey from his experience says, that
 the difference between the potatoe & Spanish

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fly is very small. I think one is as active
 as the other. Mode of applying
 Blister. To the head the head should
 be shaved previous to their applica-
 tion. The plaster should be as large as
 to cover nearly the whole cranium
 of an oval form, notched out in the
 edge to allow it to lay close. A
 handkerchief bound around the head
 to keep the plaster in contact with
 every part. In shaving the head par-
 ticularly in ladies, leave the hair
 stand on the front part of the head
 as they wear the have no occasion
 of wearing wigs. Sometimes a clip-
 per to the back of the neck will
 answer the purpose, and saves the par-
 ticular hair. it is to be cut in the shape
 of half a moon. holes in the corners
 for strings to go through. For the
 ear to be cut in the same shape. & for
 the forehead in the same manner.

For the eyelids in the shape
 about the size of a dollar. I formerly
 applied adhesive plaster over the eye-
 lids to prevent any of the flies get-
 ting into the eye but the plasters
 is unnecessary as the tears will
 wash out any particle of the fly
 which has got into the eye.

For the epigastrium in the following
 shape



For the throat a small oblong plaister
is to be used, but when we only want
to blister the tonsils the following is to be used

The middle  not to be spread
with the plaster. All other parts of
the body are to be blistered with rose or
sage leaf blisters. **Cantherium Actuale**

Actual cautery, is but little employed
at this time. They are occasionally used
in the French hospitals. Dr. Valentini
mentions, that mania Epilepsy &c
are relieved and cured by it. he extolled
cautery highly. applies them to the oc-
ciput. I shall only remark that issues
and setons answer the same purpose
Moxa. Burning Moxa on the body.
The Indians use them, and I hope our
modern medical brethren, will not
resort to this savage practice.

Setons and Caustics. the seton is gen-
erally applied to the back of the neck.
the Diseases are chronic on which
blisters are useless. In head ache of
the perpetual kind. chronic infla-
mation of the eyes ears & scrofulous
joints, in the healing up of old ulcers
in chronic affections of the lungs, al-
ways near the affected part. In chronic

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stated (see)

Cases to the left arm in the deltoid muscle
(vide elements of surgery vol 2.) **Caustics.**

these destroy the texture of parts. they ex-
cite an action which the vital pow-
ers cannot overcome. by adding quick-

lime their action is chemical. **Caustic Potash.** Prepared by add-

ing quicklime to the carbonate of Potash
This is the most powerful of all caustics

made into moulds is very deliquescent is
to be secluded from External air. kept
in bottles well stopped. is to be applied
cautiously, not too deep as it might if
near an artery produce a sloughing
which would be a serious consequence
If left too long is apt to produce a large
ulcer by spreading. It deliquesces
rendering it extremely proper in old ul-
cers with callous edges.

In opening abscesses it is better adapted
than any escharotic as it will soak
and spread as before mentioned into
the abscess. In making issues it is
immediately neutralized by vinegar
on that occasion it is useful in burning
fungous tumours of the mouth.

The mineral acids act rapidly as
escharotics, especially the Sulphuric
and nitric acids but from their fluidity
they can seldom be conveniently used.

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³⁴⁶
Nitrate of Silver. Is a double to all
cases where escharotics are to be used
it changes the condition of parts and
renders them ready to heal producing
healthy granulation. This is to be
used in chanures. This preparation is
obtained by dissolving silver in nitric
acid, evaporating the solution to
dryness melting the mass by a gentle
heat and while liquid run it into
cylindrical moulds, in which as it
cools it becomes concrete.

Sulphas Cupri. Red precipitate
burnt alum corrosive sublimate
and arsenic are all used.

Urticae Sabina. (Savi) The leaves
as I have before mentioned possess a
crisal power whence they are em-
ployed. The powder sprinkled on
warts or excrescences removes them
is used as an application to old ul-
cers keeps up a discharge from a
issue. It will not excite strangury
as cathartics does. Is made into
an ointment in the following manner

R. Powdered Savi's leaves ℥ss
Oleum Card - ℥ss
Bees wax - ℥ss

I have now finished with episporthes at my
next lecture I shall commence with Stimulants

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Lecture 4th

Stimulants or Excitants. are those medicines which produce new actions or improve without an evacuation. In the great majority of our diseases the only stimulants - which are necessary after stuporid action is reduced, are the lightest kinds of food. Stimulants differ in the parts to which they are to be applied.

Particular Stimulants

Heat and cold temperature. is of great importance in diseases as in apoplexy, heat is employed operating as a Stimulant, and in cold extremities on the approach of death. Cold water in syncope is a well known article, and the affusion is valuable in some

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State of fever. Friction by means of the flesh brush, in Syncope asphyxia palsy &c extremely valuable. In an anasarca chronic inflammation especially of the joints. palsy in consequence of a bruise. Galvanism and Electricity. Electricity is the most powerful.

Diffusible Stimulants

In my opinion Dr Hamilton has very improperly placed narcotics as Diffusible Stimulants. I shall retain the old (sedative) Volatile Alkali. found in animals and vegetables by putrefaction. The caustic is obtained from the muriate of ammonia by distillation from lime the carbonate by the same means from chalk carbonate of ammonia or volatile salt is given generally in form of volatile juice which is prepared in the following manner / R Gum Arabic & sugar ʒi each

Volatile salt. — ʒij

Agua — ʒw

Every spoonful contains 5 grs of the volatile alkali, if you add Camphor ʒi drop to every gr volatile alkali. it is given every 1/2 hour

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1. 2. & 3 hours. Its effects are transient, prob-
ably there is no medicine so evanescent
Therefore it requires frequent repetition
is used in many fevers, in the conclusion
of our bilious fevers it is useful. In
Rheumatism vol. Alkali combined
with Guaiacum (vol. Juice of Guaiac)
In Gout when it affects the stomach
it is very beneficial. It is much used
in Pleurisy, after the inflammatory ac-
tion is reduced. It is a valuable
expectorant, and is the safest stimu-
lant that can be given in those cases.
In the pleurisy of drunkards, after a few
purges, the Pol. Sulph. with a little
Cal. & ann. In Pertussis, it relieves
the dry cough promotes expectoration
relieves pain. In Asthma. In Dyspep-
sia especially when there is palpi-
tation of the heart, it seldom fails
to put an immediate stop. In Dys-
pepsia it relieves acidity by its al-
kaline property, and renders Oil
digestible. In Diarrhoea and Dysen-
tery I have never seen it used in those
diseases writers recommend it. -
In the & Fevers. In the stomach
affecting resembling apoplexy it is
of great importance French Physicians
use it in this case. In Water Brash.

In Cancer it is recommended but I do not think it of any service, but in Scrophulous ulcers the fumigation of the ulcer by throwing the alkali on a red hot iron. —

I have seen good effects

It has been recommended in the Cure of the rattlesnake used in Asia & Africa I have no experience in this case

In asphyxia & Syncope. In the low state of fever bilious & yellow it may be given in large doses Dr Keenly

Recommends it highly who analysed the black vomit Aqua Ammonia is used in the same case but I prefer the concrete salt is made by combining ammoniacal gas in water. Next we shall consider the

Diffusible Stimulants

The effects of ardent spirits in a moderate dose is a stimulant increases the frequency of the pulse secretion &c but this is transient, in a few moments the pulse becomes languid. Sleep comes on &c and in large doses is a narcotic. I have seen a young man who took 1 lb of Brandy & immediately expired. Alcohol. In some patients who have been accustomed to ardent spirits we have to prescribe it in cases when the inflammatory symptoms would forbid it in other cases

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When we prescribe alcohol we use Port
wine brandy &c wine has more of the
tonic & less of the diffusible effect. Most
liquors contain a nutritive quality
and spirit is never to be prescribed
in cases where inflammation is great
except in cases above mentioned where
nervous symptoms occur wine & brandy is
a very good form. In bilious inflammation
among stimulants are not to be used
until the action is completely sub-
sided. But in most of these cases a low
diet is generally sufficient. In inter-
mittent wine is to be used during the
apex. In cases of Dysentery the
port wine as having an astringent prop-
erty is best adapted. In Typhus we can
begin with wine when wine brandy
brand & brandy &c to obviate the
debility arising from brandy it is to be
used frequently. When the remedies
produce a flushed face & febrile sym-
ptoms they are to be stopped. a delirium
in those cases is not a sufficient reason
for in these cases to lay it aside.

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Lecture 49

Of Diffusible Stimulants. Of Alcohol.
 By the process of Vinous Fermentation
 A product is obtained which combined
 with the fermented liquor, gives
 to it its peculiar properties, power-
 ful & spirituous flavour, & intoxica-
 ting power being volatile it can be ob-
 tained by the process of Distillation
 and in the diluted state in which
 it is at first procured from the spirit-
 itous liquors of commerce. by repeated
 distillations it is obtained more pure
 and concentrated and then forms what
 we named pure ardent spirit, by
 chemists alcohol. this operates on the
 living system as a highly diffusible
 Stimulant, taken in a moderate quan-
 tity it almost immediately increases
 the force of the circulation, commu-
 nicates a greater degree of muscular
 vigour & excites exhilaration of mind
 these gradually subside & are followed
 by proportional languor. if the quan-
 tity is more considerable its exciting
 effects are more quickly produced &
 are followed by intoxication temporary deli-
 rium & stupor & in a large dose it occa-
 sions death, with scarcely any symptom
 of previous excitement. Its analogy in

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producing these effects, to other narcotics is sufficiently obvious. Its exciting power however appears to be rather more permanent than that of some of the medicines of this class, and hence while it can be successfully employed to rouse the powers of the system it can scarcely be used with equal advantage to depress its regular action diminish irritation or induce sleep. it is also an important pharmaceutical agent. The relative quantity of alcohol which you prescribe depends upon its strength. The different degrees of strength I have already mentioned to you in a former lecture —

By Alcohol, spirituous liquors, brandy, wine & fermented liquors owe their exhilarating powers to the portion of alcohol they contain. this opinion has been advanced indeed, that the alcohol they afford does not preexist in them before but is formed during the distillation. this opinion resting on facts, that the alcohol cannot be procured from them in the same quantity by any other method & that when the product of the distillation is added to the residual liquor, wine is not produced. Madeira wine is about half as strong as brandy according to the experiments of Mr Brand

From the immoderate and long continued

use of various & Spirituous Liquors many dis-
 eases derive their Origin as Dyspepsia
 Hypochondriasis visceral Obstruction
 Chronic inflammation of the Liver and
 joint. morbid States probably arising
 either from the increased activity
 exerted giving rise to original disease.
 or merely from the exhaustion of
 power general or locally produced
 by a stimulant operation unnece-
 ssarily excited or too long continued
 Dyspeptic patients will be tempo-
 rarily relieved by brandy & water.
 If the disease is increased it will genera-
 ly terminate in a hepatic disease
 In Rheumatism

When Alcohol & Ellimial acids are
 distilled ether is formed. I shall first
 mention sulphuric ether. This is
 formed by the action of Sulphuric
 acid on alcohol, and is the one
 which has been chiefly employed in
 medicine. It is obtained by ex-
 posing a mixture of Sulphuric
 acid and alcohol in equal parts
 (weights) to a heat sufficient to produce
 ebullition it distils over & is puri-
 fied by a second distillation.

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When it has acid properties, add an alkali which will abstract the acid and form a Neutral Salt. It is colorless & transparent highly odorous and pungent so very volatile that it evaporates speedily at common temperatures. & from its rapid evaporation to vapor produces much cold. Is highly inflammable. For further information I must refer you to the Professor of Chemistry, who will give you all the instructions for the preparations of this article. Is a powerful diffusible stimulant somewhat analogous to alcohol in its properties but is a greater stimulant. It is given with advantage in the hysterical paroxysm. Given by the rectal dose is a teaspoonful equal to ʒi but its beneficial effects are frequently not obtained unless it be given in a larger dose & repeated at short intervals. The Ether is best taken owing to its volatility in sugar and the patient is directed to swallow it immediately. There are many preparations of this article as Hoffmann's anodyne which is made by adding the Ethereal Oil (a product of distilled turpentine of the Ether) is added to the diluted ether.

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Sulphuric acid is twice as heavy as water 4 times that of Ether. Oil of turpentine is also to be considered as a diffusible stimulant. I have already told you of its efficacy in wormy Dogs; In the latter stage of yellow fever chol. alkali is better than Ether. It may be given mixed up in the yolk of an egg, or in substance may be disguised by the essential oils, is a valuable article in a living specimen of the loquax.

In Epilepsy Dr Lehman used it with success. this may be useful when the disease is occasioned by worms.

I shall now proceed to speak of vegetable stimulants. 1st Capsicum Guine pepper Cayenne Pepper. E & W. India-spice The fruit of this plant is an oblong pod of an orange color and a pulp inclosing seeds. The membranous pod has a odour aromatic and penetrating, which is prepared by drying. Its taste is extremely hot and acrid the sensation which it excites remaining long impressed on the palate. excites considerable warmth on the stomach. Capsicum is a very powerful stimulant but has no narcotic power. as such (stimulant)

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It is given in Atonic Gout. In Palsy and
 dyspepsia and in the Catarrh stage of
 fever when the powers of life are al-
 most exhausted. It is also used as a
 condiment. The dose of the powder is from
 5 to 10 grs. It is best given in the form
 of pills with Syrup or essence of
 roses. an infusion of it in vinegar
 with the addition of salt is used
 as a gargle in Cynanche is made
 in the following manner. Take of
 Capsicum 2 Tablespoonsful. Muriate
 of Soda 1 Tablespoonful
 1 Pt of boiling water
 1/2 Pt of vinegar

Dose Tablespoonful, as a gargle
 this is used in the Southern States
 in Cynanche et aligna as I
 have been informed by my med-
 ical friends with advantage.
 I have no experience of its use in
 this disease.

PIPER. NIGRUM Black pepper or com:

mon culinary pepper has the same
 properties only differing in degree

Acorus Calamus. Sweet flagradix
 is a perennial plant growing plentifully

[Faint, illegible handwriting covering the page]

In Rivers & Marshy places, abundant in America the roots are full of joints, crooked somewhat flattened on the sides internally of a white colour, the taste warm acid bituminous & aromatic both smell and taste are improved by exsiccation, is sometimes made use of in practice to relieve flatulency.

Ammomum Zingiber. Ginger Radix India

This plant is cultivated in the East Indies whence the dried Root is imported, having an aromatic odour and a very pungent somewhat acid taste which is very familiar to your gentlemen. It is therefore unnecessary to dwell on it.

It is given alone or in combination with other remedies to promote their efficacy the following is a prescription which is often used in Asthma Ves. to relieve flatulency. Rhubarb ℥i

Prep. Stat ℥i

Ginger — ℥i. divided

Into 12 Powders 1 every morning & evening. Caraway. allspice. Nutmeg &c

Are all Stimulants, but too not necessary to dwell on them. All the above plants possess stimulant powers. I shall next speak of excretives, they are also named sedatives from their power of diminishing action. Anodynes

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From their capability of alleviating pain
 and hypnotics or soporifics from their
 power of inducing sleep. the term car-
 cotic is of Greek origin
 the following are the general effects re-
 sulting from the operation of car-
 cotics. In a moderate dose they in-
 crease the pulse promote the secre-
 tions, give vigour to the body and
 rouse the mental faculties
 renders its conceptions more vivid &
 forcible & inducing hilarity or inter-
 iority. these effects are however on-
 ly temporary & after some time symp-
 toms of an opposite kind make their
 appearance. the pulse not only returns
 to its former standard but becomes more
 full and at the same time full & soft
 the respiration is more easy. the se-
 cretions excepting by the skin are di-
 minished pain & inordinate motion
 if present are alleviated or repress-
 ed there is a general languor a
 aversion to motion & dulness of sense
 the mind is placid and inactive a
 state which generally soon termi-
 nates in sleep. this after continuing
 some time, is succeeded by tempo-
 rary debility marked by some degree of sickness

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tremor anxiety and oppression if the dose has been large these symptoms of diminished action and sense are induced even without any previous increased action as if a still larger dose has been given. the immediate consequences are delirium paralysis convulsions coma and death.

I shall first speak of Opium. It is procured from the white poppy (*Papaver Somniferum*) A native of the warm regions of Europe and Asia. It also grows in colder climates and without any cultivation of its own. By incisions made into the large capsules which it bears a thick juice is obtained which by exposure to the sun and air becomes concrete & of a brown color. this is called Opium. the leaves & stalks afford by expression a juice but inferior in narcotic power. the seeds are inert. I should be sorry if it were cultivated in this country as it would in all probability produce a consumption of it as amongst the Turks.

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It is of a dark reddish brown colour when cut it presents a substance soft and tenacious having an odour somewhat foetid and a taste bitter and acid we receive two kinds of Opium Turkey & E India the latter is of a finer quality. Though Opium has been submitted to analysis its proximate principles are still imperfectly determined. It is highly inflammable. When submitted to the action of Alcohol an insoluble portion of it is dissolved water likewise extracts a part. The solution in the former is much more highly impregnated than in the latter and it possesses the narcotic power in a much higher degree. Diluted alcohol or brandy dissolves all its active matter. Boiling in water impairs it much. This is one of many proofs that chemistry can give us instruction.

As it is partly soluble both in water & Alcohol one appears to suffer decomposition. It appears to be a G. Resin combined with other properties. Opium has an astringent property as it will strike a black colour with chalybeates

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The extract is made in the same manner as other extracts by boiling it in water and evaporating to dryness. From the *Lactuca Virida* or String scented lettuce a substance similar to opium has been obtained. The effects of it are similar to that of opium. The dose is from 5 to 10 grs. There was at one time a great controversy between Cullen and Brown respecting the stimulating qualities of Opium & Brandy. The latter contended the identity of two substances and the former the contrary. When brandy is taken in to the stomach in moderate quantities, it produces muscular action, increases the secretory the mental faculties are invigorated the pulse is increased. When opium is taken in a dose of $\frac{1}{4}$ gr. the pulse becomes accelerated in force and fulness, augments the animal temperature and gives vigour to every function of the body and mind causing after intoxication and delirium. These are succeeded by diminution of the tonics and quickness of the pulse by capillary insensibility and sleep. and there again.

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Are followed by sickness headache
thirst tremors and other symptoms
of debility. The primary operation
is therefore evidently exciting, and
the state of diminished susceptibil-
ity and action which follows, must
be considered as the effect of this
conformable to the general law
that excitement suddenly raised
is followed by exhaustion of pow-
er. Count Drump made a number of
experiments on the pulse in five
minutes

increased the force and fulness
of the pulse

In large doses symptoms of dimi-
nished action appear without any
previous excitement, and are followed
by delirium stupor deep and diffi-
cult respiration convulsions &
death and it has fallen to my
lot to be called to many patients
who had an intention of committing
suicide always found the pulse
full strong quick and not fre-
quent.

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Lecture 50th 3

On the Morbid effects of Opium.
 I have seen persons who took 4oz of laudanum with a strong active pulse this was followed by Super Delirium &c. there are no cases that demand your attention more, than to these deplorable persons. here immediate attention is demanded, you have no time to refer to books, as in the operation of Lethotomy, you can prepare your instruments and read on the subject. Dr. Physick who relieved many in this deplorable state was thanked by them afterwards when opium has been taken in large quantities & you are called in immediately Give powerful emetics immediately & in large doses the best is sulphate of Zinc in dose of ℥i. dissolved in water repeated as circumstances require. In order to produce immediate vomiting we irritate the upper part of the fauces (Oesophagus) with a feather. Diluents have been given in order to promote the operation of the emetic

Immediately after the exhibition, but this is improper as they will cause the emetic to pass off by the pylorus and act as a cathartic. It is always best to wait until vomiting has commenced then Aliments will promote the operation of emetics. When the second stage comes on which is in 3 minutes pulse full and quick not frequent. Indication to remove the remote cause, with the view of accomplishing this Doct. Physick has contrived a tube or catheter by which we can remove the contents of the stomach. It is not to be understood that you shall wait until the second stage appears. by no means! on the contrary use the catheter immediately. Thus the first who used it, and a woman who took several courses of Laudanum and in a young man a foreigner who was in distress for pecuniary wants he took a large quantity of Opium with the view of putting an end to his existence. he was resolute in his determination. He at first refused the use of the apparatus.

But at length consented. I used it and
 fortunately succeeded. Dr Physick has
 published in the last volume of the
 eclectic repository. Vide two children
 who accidentally took Opium, one re-
 covered and the other died. When the
 effects of Opium advance the free dilution
 of vegetable acids as vinegar should be
 used, which are to be swallowed in
 as large draughts as the stomach
 can receive it. The powers of the
 stomach and of the general system
 may be roused and sustained by
 small doses of warm brandy

to put off the stomach. The patient
 ought to keep in gentle motion at
 least for some hours. In these ca-
 ses after a short time the pulse
 becomes full and serene accom-
 panied by a phrenetic state of
 the brain. at this state reviven-
 tion is most imperiously demanded
 Dr Seaman of N. York used the
 stripes of the rod to a patient
 which relieved him. It has been
 said that inflammation of the
 stomach is the consequence of ta-
 king those narcotics this is common

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They produce their baneful effects
in an over dose or too short a time
for inflammation to take place.

The smallest dose which I have known
to produce death was $\frac{1}{2}$ gr. By habi-
tual use the effects of opium
is lessened. The turks use it as freely
as we do wine. The agency of
Opium is alike in every respect
to brandy induce the same symp-
toms. Red eyes bloated countenance
gutta serena.

Idiocy in digestion debility in
secreted glands especially liver
accidental disease of the liver in-
portance produce alarming sym-
ptoms called *crania a Potu*.

In such cases we must abstract
the neural stimuli and substitute
some other as an inferior of *Suprales*
communis. of this I shall speak
hereafter also *apofastica* and elude
those of you Gentlemen who attend
the hospital will recollect the pre-
scription I used in several cases
of *crania a Potu* it is as follows

	MUSK	
Dose a table	Vol. Alkali	aa 3j
	CARABIC	— 3i
	aqua Mentana	— 3iv
	every hour	

By these means I broke a man of the habitual use of Laudanum he took ℥viij a day for 4 months in the alms house. Purging by conveying it through the Duodenum according to the exigency of the case I have now finished the sedative power of opium and shall next proceed to speak of its use in diseases.

We use opium to relieve pain & to produce sleep. we have no article which possesses such hypnotic power. we give it to relieve spasms &c when we use it we must recollect that we can obtain a stimulant and sedative property. I shall first speak of its use in Fever. 1st In continued fever, not inflammatory. Opium is administered sometimes, as a general stimulant. but its operation being less stimulant than that of ~~the~~ it is not so well adapted to obviate debility or at least with the intention it is employed only as subsidiary to other more frequently used to diminish irritative & fever that state of increased susceptibility to impressions connected with debility which frequently gives rise to restlessness.

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Watchfulness. delirium and spas-
 modic affection particularly tremors
 and subsecutis ter dinnu. Opium does
 is usually given at bed time. and to
 obviate these symptoms when they are
 urgent it is farther occasionally
 administered, generally in combina-
 tion with wine, in the course of the
 day. Its exhibition is improper and
 requires to be conducted with much
 caution when there is any tenden-
 cy to local inflammation, or a dis-
 semination to the head. If it in-
 creases delirium it is absolutely
 injurious. this is the practice but
 as I have already mentioned in a
 former Lecture I never see a con-
 tinued fever. **IN TYPHOID** I never
 saw a case in which Opium or any
 Stimuli could be given, in the very
 beginning. wine has been sub-
 stituted by some for opium I do not
 approve of it. I want you to know
 that Opium has a Stimulant and
 depressing power and I want you to
 know that you can obtain either in
 many cases. in fact it is not always
 proper to give opium. in the first
 stage I have seen 1 gr. of Op. prove fatal.

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The patient fell into Coma & died
in 12 hours. He was bled once, if
he had been bled a second time in
all probability he would have
recovered. When Diarrhoea comes
on in fever Opium will restrain
it in the latter stage of the fever
if suddenly occurs Opium or alkaline
are beneficial. In continued fever
Opium in my opinion is a dan-
gerous remedy if abused. But if pro-
perly administered it is useful

Lecture 51th

At my last lecture I mentioned the
medical effects of Opium. I also
mentioned to you afterwards its
use in fevers. I shall proceed to speak
of its use in intermittent fever. It
was formerly much used but the in-
troductory of Peruvia bark has
superseded its use. If it is given in
this fever it ought to be combined
with Peruvia bark. Dr Syden-
ham gave it in the hot stage I am al-
together opposed to this practice.
My experience teaches me that it
uniformly aggravates the paroxysm

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As Dr. Synd practices chiefly in warm climates where there is a habitual tendency to perspiration. Perhaps the salutary effects which he ascribes to the medicine may have happened. I do not approve of its use in the hot stage. Before evacuations have been premised. It is given in coffee & vegetable acids. Lyssum. It is known that the acids have an antinurient power. as before mentioned it may be given in combination with Peruvian Bark given before the accession of the cold stage. Dr. Physick gave it in this manner in the cold & hot stage, and has greater confidence in it than I have in the hot stage.

In Yellow Fever. at the last stage when delirium &c come on, it is as proper as in the last stage of typhus. It is best to give it in combination with volatile alkali in the yolk of an egg or other nutritious articles. Opium has been combined with camphor and gave this combination in Typhus fever, given with the intention of procuring sleep but this cannot be

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Accomplished where high excitement
 attends, this will apply to every case
 where there is high excitement we
 cannot procure sleep. In the phleg-
 masia the employment of opium
 is from its stimulant operation
 more doubtful & in any case in-
 flammatory affection attended with
 highly increased vascular action
 must be hazardous, when it is giv-
 en so as to determine its action to
 the surface of the body & produce
 sweat it is often advantageously
 used particularly in Rheumatism
 or the other diseases of this order
 when the inflammatory stage has
 subsided, its exhibition is occasi-
 onally necessary to obviate symp-
 toms connected with irritation
 In a Dentalgia & Paronychia
 opium will but add, by its stimulant
 effect to increase the disease but will
 alleviate pain. In Phrenitis. It
 is highly injurious depletion must
 in this case be carried to a high
 extent. You have already learnt
 from the Professor of Surgery how to
 treat inflammation. It is therefore unnecessary

It is also to dwell on it. In Gangrene of the feet & toes of old people, you have been already told by the Professor of surgery. Dr Pott used it with decided effects. In surgical cases it has been dreaded too much of its stimulant effects in these cases. It is given in tooth ache & Paronychia to allay pain. In Ophthalmia. In this I shall say little of its use. In the acute stage is highly injurious after bleeding &c. may be used to relieve pain in a ciliary. I shall speak hereafter. In Pneumonia, is an excellent remedy after the inflammatory symptoms have been subdued. It promotes expectoration. i.e. if preceded by venesection you may obtain its expectorant effects.

In Pleurisy. After the use of the lancet is a valuable remedy.

In Catarrh. When accompanied with fever & pain in the chest is inadmissible but debilitating remedies are here valuable when cough & mixtures are admissible the following is a valuable one R/ Tinct. Opie. LIX

Dose a table spoonful 3 or 4 times a day or occasion may require another form to which I required from Dr. Pottinger

Antiseptic 31 or 4 gr
Specac.
Gum Arabic 3j 4 gr
Ol. of aniseed 3j
aqua. 3 VI
inf. —

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R Conc. Bals Tolutanum
Elixir Paregoric aa.

Dose latte spongie every 3 or 4 hours
In Pertussis. It will relieve irritation
but never give it in recent cases, always
to be preceded by venesection &c. when
the inflammatory symptoms are subdued
and not vice versa.

In Pulmonary Consumption. In the late
ter stage when recovery cannot be look-
ed for when it is well advanced, when sleep
is attended with frightful dreams
will allay enough & is in these cases
a dangerous.

In Rheumatism. Is given in form
of Dover's powder but will not answer
in its inflammatory stage many of
my patients in this stage, have de-
rived much more benefit by the
use of the lancet than anodyne.

In Chronic Rheumatism Is a valuable
remedy.

In Syphilitic Rheumatism. Is valuable
in combination with calomel, or
as to produce a ptyalism. The Opi-
um will restrain the cathartic
effect of calomel. Gout. the same
rule is applicable to this as in other
inflammatory diseases.

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In Retrocedent ¹⁹ Gout opium is useful
 Brandy synapisms applied to the re-
 gion of the stomach will relieve this
 nearly in every case. I have given to a
 relation of mine $\frac{1}{2}$ $\frac{2}{3}$ of Laudanum
 but gentlemen do not quite share
 the utility of giving such a dose and
 do not imitate me in this point
 commence with small doses unless
 you are acquainted with the hab-
 it of disordered &c of the patient
 In inflammation of the viscera of
 the abdomen as liver bowels, &c
 preceded by depleting plan

In Dysentery will alleviate pain
 always be aware of its stimulant
 power. give it according to the state
 of the system

In hemorrhagy not connected with
 a state of highly increased action of
 the blood vessels opium is a valu-
 able remedy by removing that state
 of increased irritability, whence
 the hemorrhagy frequently arises

In hemorrhagia Dr Cullen never
 found it useful. in combinations
 with acetate of lead is much used

this and many other hemorrhagies
 In Hemoptoe when the hemorrhagy

Is caused by coughing, it is useful
 by allaying the irritation which pro-
 duces the coughing but when blood
 accumulates in the
 which excites cough, and a discharge
 takes place it is highly improper.
 In the exanthemata Opium is em-
 ployed with similar intention
 and is often more peculiarly ad-
 vantageous by lessening the irrita-
 tion connected with the eruption.
 In small pox it is peculiarly use-
 ful with this intention, after the
 eruption is completed where it is
 copious and if the concomitant fever
 be of the typhoid type the same ad-
 vantage is derived from it as in
 some typhus. In measles the state
 of the system being more purely in-
 flammatory its use is rather contra-
 indicated. In Scarlatina not
 in the early stage, not until the in-
 flammatory symptoms have been subdued.
 In Dysentery. In form of enemata
 to allay heat, & terminate griping &
 to gutt. in 1 $\frac{3}{4}$ G. Anab. this I have already
 stated is a fever in troversa.
 In colic both by mouth & by injection
 it sometimes purges owing to idiosyncrasy

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To its antispasmodic power flatulent colic is relieved followed by Emetics of *Al. Resini*.

In Bilious Colic. after venesection and purging it is often useful and in flatulent a single dose is sometimes sufficient. In acute Phrenitis it is inadmissible but in mania attended with a rapid state of brain, Opium is used. Dr. Physick gave 27 grs a day with powerful evacuations in a recent case of mania & cured his patient in 4 weeks. In this disease large doses of medicines are always necessary. In a case of insanity I have given 40 grs a day in cholera it is valuable. and also in the species of mania from intemperance. In Tetanus it is the only remedy. I refer to a species of Hysteria considerably either and requiring the employment of venesection, purges, & diaphoretics. I do not pretend to say opium will cure it but it will do more than any or all others. It should be given in very large doses. Carry it to the extent of producing sleep or whatever quantity is necessary the change of the pulse & narcotic effects, are the evidence of this

(409)

In Hydropothia I am desirous of seeing
the Opium carried to still greater extent
and surely in this case if in any should
we be justified in proceeding with
the use of it to a very dangerous ex-
tent nearly to produce death

Lecture 12nd

In Epilepsy Opium is useful in some ca-
ses. Dr. Chapman supposes it a gastric
affection that this is often the case
we do not deny but as it often arises
from other causes, remedies acting
only on the alimentary canal
should invariably be successful.
I have given large doses to a patient
at bed time his fits coming on in
the night but could not perceive
that it did good or harm. I do
not however condemn it. When
in a epileptic state place Opi-
um in serviceable. A sense of
coldness or actual pain are symp-
toms when either says Opium is use-
ful. In hysteria Opium is valuable
but as it is often accompanied with
high or twice action requires care
to administer it and let loose
excitability. In asthma it is very
useful even when venesection is indicated.

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The latter is to be premised. Palpitation is frequently a symptom of Dyspepsia and I have commonly used vol. alkali with very great success, with or without Opium. It continues a long time and we shall often be called to persevere for it. Opium will palliate but not cure. In Angina Pectoris small doses of Laudanum are recommended by Heberden. In Dyspepsia it will palliate some symptoms, but it often causes that disease. In Syphilis it was formerly much extolled. It is a valuable medicine during the exhibition of mercury a water infusion as a gargle. I might here close the list of digestions, but shall consider its use in Surgery. In Lithotomy Opium mixed with essence of Roses and made into pills is introduced into the rectum, instead of giving it. If given in substance, the dose is ʒss. It is supposed to have a more permanent effect than in a liquid state. The pills are made by rolling them.

I have considered this as the most form of giving it when we wish a speedy operation. The powder is to be prepared if the form of pill is preferred, the powdered opium may be made into a pill with essence of Aniseed. Bread &c.

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But always to be fresh prepared when we wish a permanent operation give the opium-pice. Laudanum. 1℥. Opium to 1℔ alcohol. 1 oz. Laudanum contains 28 grs of Opium & drach 3 1/2 grs. and 25 gutta 1 gr. This is perhaps of equal importance with any article used. If Laudanum is kept a considerable time the Opium is deposited supernatant liquor is weakened the alcohol if the bottle is un corked the bottom is much stronger in proportion to the evaporation and deposition. In those circumstances I have known 2 gutta of Laudanum produce death therefore be on your guard in prescribing still Laudanum. 25 gutta for an adult. to be varied very much - 10-15. years 10. 15. gutta according to circumstances 1 gutta for a child within a year. In some cases we are obliged even to give it in larger quantities when given to children within a year 1/2 gutta in a teaspoonful of

Tinct Opii Camphorate. as more agreeable to the palate than Laudanum. I never prefer the paragonie to Laudanum 1℥. contains 2 grs.

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The Edinburgh dispensatory 1 Oj.
 containing 8 grs. This is another objection.
 The remedy 5 grs. within 1 month.
 a various function of Candarum is
 little used in this country. It was
 recommended it as a cathartic
 a watery infusion is sometimes pre-
 pared & employed as an injection
 the use of opium by the stomach
 is precluded by nausea & other
 circumstances. here use it extra-
 nally or in enemata. the Opium
 plaster is made by softening the O-
 pium with spirit & spreading it on
 leather. Plasters of opium. In these
 I have not much confidence. Opium
 lead It is however useful in several
 pains as toothache hemicrania
 & tic Dolorous. Unollyne. M.
 fection. In common cases we may
 use Candarum, generally mixed
 with mucilage of G. Arabic
 starch water &c. For strangury see.
 Ceding blisters & in tumors it is very
 useful. In some cases we are obliged
 to use opium mixed with water and
 starch. In. of the Rectum and
 uterus In eversion home

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Gives Opium Pills is introduced into
 the Rectum with great advantage
 I have now finished with this val-
 uable medicine. Hyoscyamus
 is a active article all parts have
 medicinal virtues. The extract is
 principally used. It has long been
 known a potent poison. Its effects are
 very analogous to those of Opium
 And next to that article is the most
 certain hypnotic the pupil of the
 eye is greatly dilated by this and
 other narcotics. Were I called to oper-
 ate poisoned with this I should pursue
 the practice pointed out in speaking of
 opium, especially washing it out the dose
 is 1 or 2 grs gradually increased. It is
 principally used as a substitute for op-
 ium, whenever we are to avoid constipation

Dr. Barren tried it in cramps &
 he says, in 1 case with great effect
 In Epilepsy it is to be used only when
 opium is contra indicated Dr. Barren
 recommends it in combination with
 Squills & Citric acid, and in asthma.

R/ 3 grs ext Hyoscy
 10 gutta tinct. Squills
 5 drs Citric acid
 1 ℥. water
 does that commonly recommended

} So far as I have
 seen this prepara-
 tion. it should
 be given in larger
 doses than commonly recommended

1419

Lecture 53

I spoke to you last of *Hyoscyamus* & *Sedum* (Black hunker) I shall next speak of *Laurus Cerasus*. Cherry Tree Laurel (common) this does not grow in the U. S. as the name implies it bears a cherry the leaves are the parts used, they have an odor slightly fragrant, their taste is extremely bitter they possess a highly narcotic power. If given in large doses it produces death without a struggle no inflammation is evident in the stomach the operation says Cullen is various in Languish & it is that 1/3 of the infusion of the *Laurus Cerasus* will occasion more violent and stronger convulsions than 500 grains will do the active principle is highly volatile & chemists have long supposed it to be the nature of Oil but it appears to be prussic acid. This is the opinion of respectable writers that this is (acid) essential to the narcotic and delirious properties of this plant it has been observed that the odor of this plant is similar to that of the cherry laurel peach blossom and bitter almond - we may prepare the medicine in the form of

(421)

Infusion and Tincture. Cataplasms of it have been recommended by Cullen as useful in some cases of Pharyngitis. Did Langrish mention that the powder of the dried leaves is much used and held in great esteem among the poor people in intermittent fever. This is hazardous. In Pulmonary Consumption. It is given. Reduces the pulse similar to digitalis. Dose of the tinct is 5 drops. of infusion.

I have not employed it. I commence to speak next of Atropa Beladonna. deadly night shade. This has long been known as an active poison a native of Europe. a perennial plant the whole of the plant is active but the leaves are prepared for medicinal use, as being more uniform in strength the berries were used as an antidote but are now laid aside. In a moderate dose beladonna occasions a sense of warmth followed by diaphoresis and a disposition to sleep frequently with nausea and head ache. In a large dose symptoms of intoxication vertigo sickness and thirst the pulse becomes slow

14231

And feeble. The pupils are dilated vision is impaired and these symptoms terminate in convulsions, coma or paralysis. Indication. To remove the remote cause by giving large doses of emetics as Sulphur Trioxide by washing out the contents of the stomach in the last stage stimulants to rouse the system when comas comes on By long continued use it may be gradually increased.

In Epilepsy 2 grs to 10. should be given with palsy & mania in febrile & tercal action but in that state of the brain accompanied with apoplexy it cannot be admitted.

It is said to be useful in intermittent fever just before the accession of a paroxysm. Dr Buller speaks very highly of it in cancer. he says he has seen a case much ameliorated but the patient dreaded the effects of this medicine & laid it aside. Dr Dorsey seems to discredit it. it has been used in hydrophobia by a Dr Saunders first used it for dilating the pupils in operations on the eye (congenital cataract) a drop or 2 of the extract mixed with water.

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As spread over the eyelid in $\frac{1}{4}$ of a
 hour dilates the pupil. Taken in-
 ternally it produces the same ef-
 fect. Dose of extract of belladonna
 1 to 2 grs leaves 1 to 3 grains

Conium maculatum. Hemlock
 not indigenous in the U.S. but
 grows in some parts of Penn^a &
 Virginia. it grows best in a light
 soil. it is also called cicuta the
 extract or leaves are used. Goats
 eat it without injury. It is in-
 fatal to rabbits & geese. It is said
 Socrates owed his death to it.
 in small doses it produces dim-
 ness of vision & nausea. In large
 doses the effects of other narcotics.
 It has been given in cancer in the
 dose of 2 grs. expressed juice $\frac{3}{4}$
 Baron Storch used it in this
 and he was the first that intro-
 duced it. Dr. Dosey says
 he has used it externally &
 internally in general skin
 & cancer without any good effects
 he has also used it in scrophulous
 and has found it beneficial, as an
 alternative combined with mercury

(427)

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In Lepus it has also some good. Dr. Ross has
 seen a case of scrophula of 10 years standing
 cured by cicuta & Conocine pulled in
 in 3 months. In ulcers from venereal bu-
 lous does a great deal of good combined
 with the salt bath. In these cases of
 venereal combined with Scrophulus
 tis to be used. In restoring indolent
 tumors. In these cases of inflammation
 of inflammation when coagulable
 lymph is effused into the cellular
 texture producing tumors sometimes
 mistaken for Scirrhus. In these cases
 purging venerection, cicuta &
 Conocine are very useful. These tumors
 sometimes occur in the testicle
 and are treated in the same man-
 ner. Genuine Scirrhus of the testis
 is known by the car-cinating
 pain has been given in the gargle
 of the toes of old people. I do not
 agree with the Doctor of Surgery
 that

I believe opium as useful as Cicuta &
 Scirrhus China Striti the emetics do
 most good. In Mania I have seen it used
 without any advantage. Pulmonary

[429]

Consumption of the Scrophularia kind
 opium is as good it only alleviates
 Pain & this can be obtained from opi-
 um

External application

Internal. Pounded leaves & extract.

Dose 2 or 3 grs. increased gradually
 to 8 grs. the leaves are to be gathered
 when the flowers are falling off. They
 should be given extract is made
 by insipiating the juice of the leaves
 but should never change the par-
 cel of any active medicine, with-
 out experimenting on it, as one par-
 cel may be much more power-
 ful than another very frequently
 you will find 1 gr. equal to 10
 the leaves are to be dried before a
 gentle fire & kept secluded from
 light the following is the formula
 which I employ

R Con Subl. 8 grs
 Ext Cicuta 64 grs

This is to be made into 64 pills
 and one to be given morning and
 evening.

[431]

Section 54th

Datura Stramonium. An annual plant and very often called the popple. The seed most commonly employed. It is frequently eaten with impunity. On the human system it produces effects analogous to Opium. Tetanus has been said to have resulted from its use. It dilates the pupil very much. The iris is almost insensible. I have seen several cases of this kind in children when large doses have been taken. The patient is treated in the same manner as when Opium has been taken in large quantity. Dr. Storch employed the extract of the leaves, seeds. In epilepsy in *Chorea* and some other Nervous diseases. Dr. Acker of Mannheim observes he has given the *Stramonium* in epilepsy with advantage when the periods became regular he gave the seeds culled up with *G. Arab.* in pills of 4 grs every 2 or 3 hours. A low diet is to be observed. Convulsion when epilepsy terminates in fatality. There is an organic affection

(493)

By the brain and no other means will
 do good. The seeds should be of adack
 celandine In mania the medicine
 was tried largely in the Penn
 Hospital. but with little effect.
 In Tetanus it has been used by
 Dr. Summs of Georgia has reported
 a case cured by it Dr. Dorsey
 thinks that is by no means so good
 as opium. he also says that he
 never saw the disease recover
 from when veratrum has been
 used. In Asthma it has become
 fashionable to smoke the Ste-
 monium internally. It is much
 less powerful than Opium in the
 throat In consumption it has
 been employed but it should
 not be preferred to opium. It
 has been said to prevent the pro-
 gress of intermittent fever in a
 dose of 2 grs. In Gutta Serena.
 It has been used but without ef-
 fect. In operation of the eyes it
 is used to dilate the pupils of
 the eyes externally employed Ex-
 tract dose 2 grs & creand slowly to
 15 grains Saturated Tincture R. 15.20

(435)

Gutta gradually increased, made a
 filling a quart bottle half full of the seeds
 and filling it up with spirits, the leaves
 steeped with brandy and applied to
 the pained part. i Rheumatism
 i Gout has also been used i Linn
 where the ulcers are of the chronic
 kind. In hemorrhoidal affections
 it is in some cases useful nausea
 & vomiting sometimes arise from
 the external application &c -
 Stramonium & henbane do not
 constipate like Opium

Nicotiana Tabacum. Tobacco
 is also a powerful antispasmodic
 we resort to it i the angulated
 hernia chole i order to relax
 the stricture, and as a glyster
 ʒi of the leaves to ʒij of warm water
 it is dangerous in order to be injected
 at a time Dr Lorry has given ʒss.
 of a saturated infusion to a child
 in tetanus without producing any
 effect In S. England it has cured
 tetanus by glysters Citron acid much
 cures in of the hepatic ~~or~~
 diarrhoea also but saturated with salt

(437)

A solution of cocaine sublimata.
Calomel these are used in uterine
to an infusion of Tobacco.

Humulus Lupulus. Common Hops
It is given in doses of 3 grs in per-
sistent cases. Dr. Lescage has succeeded
in cases of *Chorea* a potu with
it a saturated tincture is also
a very good preparation used also
in some instances as a cataplasma.

Nux Vomica. and several other
stomachics might be mentioned
but time will not permit me
to mention them (speak of them) I shall
therefore at my next lecture commence
with antispasmodics.

Lecture 55th

On Antispasmodics.

Spasm is an irregular contraction
of the muscles & muscular fibre
and those medicines which relieve
it are called antispasmodics
I do not know that we have any
medicine that is truly antispasmodic.

(439)

I shall first speak of Camphor.

Camphor is not the produce exclusively of one vegetable but is contained in many plants especially those of aromatic kind. diffused through the wood and bark and is often deposited from the essential oils when these are long kept. the Oils of Peppermint thyme Sage and a number of others thus afford it. for the purpose of commerce it is obtained from a species of Laurel. the Laurel Camphora a native of Japan. it exists in distinct grains in the wood of the root and branches of this tree. It is extracted by sublimation the wood being exposed to heat without a quantity of water and the temperature being communicated being sufficient to volatilize the camphor. In Europe it is volatilized by a second sublimation with the addition of half its wt of lime. Pure camphor is colourless semi transparent, engaging and somewhat unctuous to the touch its smell is strong and fragrant its taste is pungent and bitter Volatile acids dissolve it, strong acids decompose it.

(441)

In large doses produces nausea & vertigo & convulsions death &c. of its employment in diseases of its mode of operation we scarcely know any article of its precise operation. In Diseases it is only admissible as a stimulant article. The opinion of old Physicians is that it acts as a cooling & a sedative. I have no great experience of it & therefore will refer you to others. In Typhoid cases where opium & volatile alkali are used & when I use it I combine it with Opium & volatile alkali. In intermittent fevers I like many Practitioners have exclusively trusted to it alone, but better combination with Peruvia bark altho' camphor does not act as an antiseptic is well known that Dr Sydenham's experiments have clearly set aside the putrefactive state of the blood. In low states of fevers as in jails & hospitals is useful particularly in combination with vol. Alkali, & Opium. In purpuræ fevers when a typhoid state comes on it is useful, but in all fevers in the first stage it is inadmissible. After the loss of sleep

(443)

Remedy it is useful. In Phlegmasia
 tis occasionally used, but no Physi-
 cian uses it to the acute stage. I
 consider it a pernicious article.
 In a chronic state I agree
 with Dr. Barton, that it is a sub-
 narcotic & useful in producing
 a ~~great~~ ~~an~~ anæsthesia. Diaphoretic
 In chronic Rheumatism it has
 been used both internally and
 externally. In Epilepsy it has
 been used but I consider it in-
 ert. In Chorea Struati it has al-
 so been used. In Mania it
 has been used & I tell me an
 article in the Materia Medica
 ca that has not been used in this
 disease. I know of none. In puerpe-
 ral convulsions I must refer you
 to the professor of the obstetrical
 chair. Dr. Stearns Gray. It will
 relieve and prevent the fun the
 use of cathartics. The dose
 of Camphor is from 5 to 20 grs
 we may give it in larger doses
 I have seen it given to the ex-
 tent of ʒij it is sometimes given in

(445)

the form of tea: this is made as follows
 Pour a little alcohol on it that the
 camphor may be partially dissolved
 then pour boiling water on it this is
 a weak mode of exhibiting it so
 it will relieve strangury from blis-
 ters. It is also useful as a loca-
 tion Zi camphor dissolved in 40%
 oil of turpentine (oil of turp.) I shall
 next consider MUSK. (*Moschus* -
moschus moschiferus) the animal
 which affords musk is a native
 of the elevated regions of ~~egypt~~
 the east of Asia. The musk appears
 to be a peculiar secretion which
 is deposited in a small sac situ-
 ated near the umbilicus of the male.
 It is brought from China or from
 China India. in small membranous
 bags covered externally with coarse
 hair. The musk within is in grains
 is slightly in color of a black co-
 lor, having a strong durable smell
 and a bitter taste. It yields part of
 its active matter to water by infusion
 by distillation the water is impregnated

14471

With its flavor alcohol dissolves it (the
 spiritus excepted) it is a volatile alkali
 and is said to lose no weight of itself
 in distilling I have not much to say
 it is placed under the class anti-
 spasm-odics Dr. Cullen supposed it
 a powerful medicine. In Tetanus.
 there is a case similar to Tetanus
 in which it is used. I copy it down
 and add the form in which it is used
 is as follows / R. Musk

Vol Alkali — aa ℥ij
 Gum arabic — — ℥i
 Aqua Fontana — — ℥iv

I have a bottle of this full ever here
 I think I think much of this pre-
 scription in this case. It is much
 used in the Hospital. Dr. Ross of
 England used it in a particular
 case of spasm of the throat with good
 effect. In Gout when the stomach
 and intestines are in a spasmo-
 dic state. I think it beneficial
 In Spasmodic Asthma much
 benefit has resulted from its use
 In subcutaneous tenderness I have al-
 ready mentioned its use in this affection.

[449]

And think it highly useful I have
 used it. I have seen a slight nar-
 cotic effect arise from it. Dose 5 to 10
 grains. I prefer it given in small do-
 ses frequently 5 grs once in 2 hours
 may be given in form of infusion
 and below but I prefer it in the
 formula already mentioned.
 also used in form of emulsion
 but it is so expensive that I would
 not advise you to use it in this way
 artificial musk has been made
 and it is said to be as powerful
 as the genuine, the mode of making
 it is as follows By triturating one
 part of Oil of amber with 4 parts
 of nitrous acid added in small
 portions at a time & stirring them
 together with a glass rod, the oil
 is at last converted into a yellow
 resin having the smell of musk
 and is known in Germany under
 the name of Musk Castor.
 Castoreum, resin like the beaver is
 anphibians gradually is a na-
 tive of the north of Europe Asia &
 America

Caster is a peculiar product collected in cells near the extremity of the rectum in this animal. It is imported of superior quality from Russia and of inferior kind from England. The former is a dry slightly unctuous of a reddish brown colour intermixed with fibres and covered with a tough membrane. It has a strong unpleasant smell and little acid taste. The active matter of castor is dissolved by Alcohol pure Spirit, and partially by water. The tincture with alcohol is least nauseous. Cullen says it is a powerful antispasmodic when given in large doses. The Physicians in the continent of Europe give it in Mania Epilepsia, but I think it is inefficacious. Dose from 5 to 20 grs. Tinct 1 or 2 Empyrenumatic Oil and several others are banished from Practice. Carbonate of Ammonia. Is so difficult to be retained on the stomach when added to empyrenumatic oil, that I prefer giving it alone.

14521

Oil of Amber I have seen it used in
 Colic in large doses with benefit
 In Gout does good
 as an emetication I would not advise
 you to use it as it is so disagreea-
 ble. use those which I have already
 mentioned. *Asafoetida*. *Gemma asa-*
foetida. Gum Resin this is so familiar
 to you all that I shall not dwell
 on the subject some use as a sub-
 stitute for garlic. In diseases we
 employ it. In *Hysteria* every pra-
 ctitioner uses it. Cullen says it relieves
 the paroxysm all the fetid gums
 determine to the Lungs. *Asafoetida*.
 has this effect and produces expecto-
 ration. In *Pleurisy* and other
Pneumonic diseases is useless after
 the acute stage is subdued. In the
 acute stage it is injurious. It is best
 after the use of the antiphlogistic
 plan has been resorted to
 In *Asthma* it is given to meet two in-
 dications 1st to relieve Spasm 2nd to re-
 lieve flatulency. In *Pertussis*. I
 confess I have found nothing better
 given in aqueous solution. formula as follows

1434j

1880

Asafetida ℥ij } The dose is a tablespoon
 aqua Rosa ℥ss } full every 3 hours to
 a child 1 year old after purging
 with calomel in the first stage. you
 will find it highly useful to
 obviate the paroxysm. In Pleurisy
 Catarrh croup &c. it is much used Dr
 Rush. Dr. I found in these persons who
 took Opium and brandy in excess
 highly useful I have found the same
 dose 3 to 10 grs. my form of giving
 it is as follows dissolve ℥i or ℥ij in
 3iij Rose water Dose tablespoonfull
 In the form of Glyster it is much
 used in acedities.

analagous to this article but less
 efficacious is the Gum Ammoniac
 formula in which it is used
 R. Gum Ammoniac ————— 3℥
 dissolved in 5ij 3 Mucil of G. Arab —
 Vinegar of Squills ————— 3℥ss
 Laudanum gutta 60 —————

Dose a tablespoonfull I have found
 this a valuable medicine in chroni-
 cough dissolve the gum Ammo-
 niac in the mucilage and add
 the latter articles.

435

1871

A wide, horizontal photograph of a vast, flat, light-colored landscape under a pale sky, possibly a salt flat or a dry lake bed. The horizon line is very low, and the surface appears uniform and featureless. The sky is a light, hazy blue-grey. The overall tone is desaturated and somewhat monochromatic.

Lecture 56th



Valeriana officinalis. Willd. *valeriana*
Radix. Europe. The root of this plant
 which is the part used in medicine
 consists of a number of slender fi-
 bers, twisted and attached to one
 head, of a light brown colour hav-
 ing a smell strong and unpleasant
 and a warm bitter taste. It is in-
 digenous plant of Europe. Several
 kinds of *valeriana* grow in the U.S.
 but are entirely different from that
 we obtain from Europe. Like all other
 roots it yields its active property to
 alcohol. Dr. Cullen found it useful in
 epilepsy. Hysteria & other spasmodic
 affections, is a stimulant excites the
 pulse &c sometimes acts as an emetic.
 In chorea St. viti it has been used
 with advantage. In hemiparalysis
 Dr. Cullen used it (Fennel) with suc-
 cess. In Richter's work we find it was
 used in gutta serena, nothing can
 be more ineffectual than when this
 is caused by a paralytic affection
 of the optic nerve when it is the conse-
 quence of organic disarrangement
 as of the stomach it may be useful
 In low kinds of fever it is used in

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combination with turpentine and has done good in this way. It must be evident to every one of you that it is inadmissible in high action as it is a stimulant, as an Antheuritic I have no experience. It is used in substance in infusion and in tincture in substance dose ℥j to 3℥ 3 or 4 times a day gradually increased.

Crocus Sativus Saffron. this is an article which ought to be banished from the list of the Materia Medica. I might mention the different essential Oils they act as stimulants and carminatives. we give them to render other medicines agreeable. **Tar.** Tar water and tar pills are used but I think the tar water is over rated, when it is used it is made in the following manner Take 1 pint tar and 2 Gall water to be stirred for several days. the pills are made with the oil of flow. Tar water is useful in chronic affections of the chest as a tonic. I have given it with good success in Scrophulous cases. Warm Bath. I might mention good effects of the warm bath resulting from its use in several

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diseases. but the time is so short that I cannot speak of it. Garlic. *allium sativum*; this as you all know has a strong odour like onions. esculent quality of garlic. when applied to the skin in a bruised state acts as a rubefacient we often use it as a stimulant poultice. It has been used in form of friction (the expressed juice) It has no more efficacy in the form of friction than to rub the skin with a piece of wood. In drops it is used applied to the meatus auditorius externus. I prefer the tincture cantharidis. When used internally it is a stimulant it increases the pulse. the cloves of garlic are given in encephalus. it always passes off by the kidneys and I am of opinion that it is taken into the circulation at least its odour. in intermittent fever it has been used. as an expectorant it is used in Catarrh Croup Pertussis &c. with advantage but recollect gentlemen it ought not to be given in high excitement. I might mention many others but time will not permit. and I shall next speak of tinctures

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Lecture 57th

It is supposed that the difference between stimulants and tonics is, that the latter are more permanent in their action but this I cannot altogether believe. It is a difficult thing to explain the action of tonics. The term signifies those medicines which give tone and strengthening and brace the muscular fibre. I find it difficult nor will I attempt to explain the operation of tonics. They increase the tone of the muscular fibre. Tonics are those medicines which strengthen the system when debilitated. Dr. Guey says tonics act by restoring the tone this is sceptical. I will retain the term tonics.

Bitterness is a concomitant of tone. Most of the astringents are tonic. Tonics act primarily on the stomach the action they exert in that organ is conveyed to different parts of the system by sympathy.

1 To the muscular

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2 To the nervous

3 To

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5 To the cellular texture

6 To the blood vessels. In all febrile af-
fections we know them to be propaga-
ted to the vascular system. In inter-
mittent fever tones are propagated to the
vascular system

7 To the skin

14861

I might extend this further but I think I have gone far enough. are tonics absorbed? I answer no. they act primarily on the stomach and the action excited there is communicated to different parts of the body by sympathy. the state of the system has a great effect on the administration of tonics. - sometimes tonics diminish the powers of the system. -

I shall divide tonics into vegetable and animal. I commence with the vegetable tonics. First. Peruvian Bark. this is called by botanists *Cinchona officinalis* Peruvian bark has been known several centuries ago. there are three kinds of Peruvian bark met at present in our shops the pale the red and the yellow leaving undetermined their natural distinctions. the species of this genus it now appears are numerous, and many of them natives of Peru.

and it is not improbable that all, or the greater number of these contribute to furnish the peruvian bark of commerce. according to Dr Power the first is called *cordifolia* *lanceifolia* (the pale bark)

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Cinchona Cordifolia (yellow) *Cinchona*
oblongifolia the third a red. the tree
 which affords the *Cinchona leucophylla*
 is of considerable height. the bark of the
Cinchona cordifolia is taken from the
 branches and trunk of the tree and
 dried. the leaves of the *oblongifolia*
 are larger than those of the two for-
 mer and of a oblong shape. the tree
 which affords the bark is said to
 be 100 ft. high much has been
 written on the composition of the bark
 and the superiority of some of them
 which is unnecessary to mention as
 time will not permit. If you con-
 sume the red in pieces you may use it
 but in powder it is inferior to the
 pale, as it is so adulterated by
 druggists that the yellow bark
 is preferred in that city. Dr
 of Virginia made experiments
 on the Peruvian bark and
 found that it increased the pulse
 5 beats in 30 minutes. Its efficacy
 in Dysentery is a powerful tonic.
 Its tonic power is evident in Intermit-
 tent fever. Dr Cullen remarks at what time is
 it proper."

14701

The use of the back is resorted to even in its early stage by some practitioners. It is obvious that when inflammatory symptoms present, inflammation must be resorted to, as bleeding, purging, blistering &c. and these sometimes cure the disease. It is proper before the exhibition of the back to give an emetic, in the district of the country it sometimes occurs with visceral obstructions, in such cases it is proper to attend to the viscera. Mercury in these cases must be avoided to if mercury were given when no viscera was affected, it would be of no service. The remedies for the inflammation of the liver are the same as any other inflammation. The proper time for its exhibition is before the paroxysm, or during the latter stage of intermission. Tincture of guaiacum used. Douzi there are advocates, as respects the use before the paroxysm and intermission. we administer the back as a tonic, to prevent the fever. If it is to be given every hour or 2.

4721

In the W. Indies some have given it to the extent of ʒi this I Ball would call rash practice. i. f. ʒi pulvis to 1 pt boiling water. make it agreeable with cinna-
mon. give it every hour before the
paroxysm. we often give the Sen-
benaria in combination. when
there is an apoplectic state. i. f.
for the paroxysm. bark is inad-
missible till venesection &c has
been used. In Remittent Fever.

In our country is of a inflam-
tory kind and must be treated
accordingly after the inflamma-
tion is subdued the use
of bark is proper. In Yellow
Fever. It was given by some when
the fever raged in this city
(Philad^a) but all was found inef-
fectual. and to have aggravated
the disease. In this copying vene-
section is proper. In Typhus
fever in a low stage it is high-
ly beneficial. we resort in this
stage to powerful stimulants and
vines.

14741

In Pesty Plague. I never saw a case
 therefore cannot say any thing of its
 use. In Phlegmasia the lancet
 is called for In Rheumatism. In
 our country is inflammatory. and
 the Peruvian bark cannot super-
 sede its use (the lancet) In low
 spasmodic. countries Dr Barton
 recommends it in that case of Rheu-
 matism where it occurs in such
 places. In Podagra. It is general.
 ly in the first place inflammatory
 and requires depletion. In Hem-
 icrania Peruvian bark is high-
 ly recommended. In Dysentery
 It cannot be applicable in the
 first stage as it is inflammatory
 but when in a convalescent stage
 is useful. It has been recommended
 in Pulmonary diseases in all cases
 which I have seen required the
 utmost use of the lancet. The
 state of the system pulse &c will
 be your guide. in the use of the
 bark. In Pleurisy of the head &
 chest the use of the lancet must
 not be spared. In Typhus Pleu-
 risy. The use of powerful stimu-
 lants are highly beneficial.

4751

In this case you must stimulate the Decretum and in certain answers very well. In Consumption I have ^{confidence in the} no use of the bark or any other remedy particularly tubercular consumption. In Erysipelas the use of bark was much employed in Europe but in this country bark is in a dissimilable depletion is required in this country. In some cases of our Ulmus House present prostration of strength in which the use of tonics are proper. In Eruptive diseases always keep the state of the system in view and you cannot fail. In Hemorrhages the use of tonics are in a dissimilable. In epilepsy when prostration of strength is present tonics are beneficial. In chorea St. viti. or Hamilton's plan of purging is beneficial. This is a very intelligible disease. I have not seen many cases of chorea St. viti. In tetanus. Drs. Rush & Hossack of N. York recommend it highly. Stimulants are highly useful in this disease but I prefer the use of powerful stimulants to the use of bark.

14781

14791

In asthma it is useful in the latter stage.
In scurvy combination of serpentaria
and peruvian bark are beneficial.
Serpentaria Dr. Fordyce recommends
it in this disease and Ophthalmia.
but I should use circulating general
and local. In Rachitis is much
used. Warm shower bath sea bath
&c. are useful. as general remedies
in Europe where Rachitis is much
more frequent than in this country
the invigorating plan must be
used exercise sea bathing shower
bath &c.

Lecture 58th

Application to gangrene from the
Professor of surgery you have already
learnt. that gangrene is pre-
ceded by inflammation and gan-
grene treated with inflama-
tion he must be insane who pre-
scribes bark in the first case. it would
aggravate the inflammation. bark has
an antiphlogistic propensity. the
cure is precisely the same as when gangrene

1480/

Results from interruption of circulation.
 Bark cannot be useful nor any other medi-
 cine. in gangrene of the feet and toes of
 old people. Mr Pott says I have derived
 no advantage from it. I have tried it in
 every shape to what species it par-
 ticularly useful. I answer to few.
 the use of blisters I have already
 mentioned are useful also Sol.
 Alkali blisters & opium &c to gan-
 grene unattended with inflama-
 tion. I want you to lessen the high
 opinion of Peruvian bark.

In Poisonous wounds. Abbe Fontana
 recommended it. I have no experience
 of the use of bark in poisonous wounds
 you will recollect that its employ-
 ment in inflammation is in powder
 and gentle mode of giving it 5j in pow-
 der in wine a thick portion & small
 doses are preferable to large. as they
 will remain better on the stomach.
 but it sometimes happens that the stom-
 ach rejects it in substance. there-
 fore I shall mention its pharmaceutical
 treatment. warm water dissolves more of
 it than cold water. we prefer the aque-
 ous preparation to the alcoholic.

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℥i of Peruvia bark to 1 pt. boiling water, and a little cinnamon give 1/8 part of this, to be increased as circumstances may indicate. The decoction is preferred to the infusion. The tincture is not much used. The compound tincture is much used and is made as follows, called Tinctura Cinchona Composita vulgo Houang tincture of bark —

R Peru Bark ℥ij
 Extract of Sassafras — ℥i
 orange peel dried — 3℔s.
 Hu. Snake Root. } ℥ij
 Crined. }
 Saffron — ℥i
 Alcohol — ℥ij

Digest for 14 days and strain.
 I have been in the habit of adding it to my decoction this makes it very grateful. The tincture of Houang is given to dyspeptic patients, but this is not so useful, as the aqueous solution. In all chronic complaints it will by its long continuance delineate the prima via and will give a relish for an inert spirit. External application. the bark jacket is sometimes used in intermittent fever also

14841

In form of cataplasm and bath, but this is only auxiliary to its internal administration. If the bark purges combine it with opium. If it constipates combine it with magnesia & Rhubarb. Gentian. Gentian Lutea Radix Germany. Switzerland. This root is in long slender pieces, soft and flexible of a yellowish colour with a grayish epidermis. It has a very bitter taste without any peculiar flavour. This bitterness is extracted both by water and alcohol. diluted alcohol is its proper solvent. it has been much used in dyspepsia hysteria and other nervous complaints, and is sometimes useful in Scrophulae &c. It is used in intermittent fever dose 30 grains. In infusion decoction and tincture you will see the different preparations in Cooper's dispensatory. Colombo of the plant which furnishes this root no botanical account has been given. It is said to be brought from Ceylon but from Catea accounts it appears to be the produce of Southern Africa. It is a round thin piece, evidently formed by a transverse section of the root. The circumference of these is covered by a bark

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The woody part is of a light yellow colour
It has an aromatic smell and a bitter
taste it yields its bitterness to water but
proof spirits is its proper menstruum
though the tincture is not very strong
This is a native plant growing in the
western parts of the U. S. it is a very
important bitter. the taste is purgative
and a little somewhat aromatic
smell the roots come to us in wrinkled
pieces. internally of a light yellow
colour. Its medicinal property is
a strong bitter. It excites the pulse
the watery infusions are always pre-
ferred to alcoholics. It is used in
Dyspepsia. In Dysentery however
its high reputation. In Cholera
crudus it is much used in the W.
Indies. but quite an opposite treat-
ment is pursued in this country, not
giving it until the convalescent stage
It is conveniently given in powder
℥ss. which in urgent cases may be
repeated every 3 or 4 hours. It is given
in infusion Decoction and tincture
Quassia. Quassia exelsa Lignum.
W. Indies the wood of the root of the tree
is of a yellowish white colour it has

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A taste intensely bitter. without any
odour or aromatic flavour. The
bitterness is extracted equally by wa-
ter and alcohol. The name does
derived from a negro doctor

of It is a doctored to eluid
cases of Dyspepsia hysteria & Podagra
the wood is given in a dose from 10 to 15 grs
but better in a cold infusion form of
infusion. R. Quassia ℥i

Water 8 ounce

the dose is not precise a wine glass
full may be given. Augustura.

Bark, a plant of the southern countries
the bark comes to us in small pie-
ces of a light yellow colour smell
somewhat acid aromatic. It was
by some practitioners placed equal
to peruvia bark. but this is not
my opinion. My own experience
it is limited. you may give it
in substance, in infusion & tincture.

Dose of the powder a ℥j or ij —

Serpentaria Virginiana. Is a perenn-
al plant a native of America ex-
clusively in addition to the tree is a

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Diaphoretic. In this country (N.A.)
 it is extensively employed but we
 have to give it in increased action.
 as it will excite the pulse is a slight
 stimulant. Is frequently combined
 with Peruvian bark & given in
 intermittent Fever. In Egyptus it
 is also much used combined with
 Per. Bark. I have used it freely myself
 but as a tonic sol alkali is better.
 Serpentina as a stimulant. In Remit-
 tent fever is much used and in com-
 bination with Peruvian bark given
 in powder \mathfrak{ss} to \mathfrak{ij} it is also given in
 infusion by decoction its active prop-
 erty is impaired. *Prunus Virginiana*
 this given in latitude $44^{\circ} 29'$. It is
 given in substance in infusion and
 decoction. The last is best. Dr. Mor-
 ris wrote an essay on it. vide those
 who have access to it, would do well
 to peruse it. It is given in Pulmonary
 consumption. I have used it with
 great success in (Pulmonary complaints)
 It is highly useful in hectic fever,
 but it has been too much used in these complaints

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Anthem. Nobilis. chamamelum.
chamomile. Flores. The bitterness with
 part of the oil is extracted by wa-
 ter and alcohol and if the infusion
 has been made with warm water it is
 necessary distilled with water the
 flowers yield a small quantity of
 essential oil. Chamomile is a pow-
 erful bitter and as such is useful
 in dyspepsia forming a popular
 Remedy which is in common use.
 When employed for this purpose it
 ought to be under the form of cold
 infusion which is most grateful. The
 infusion is tepid water when strong acts as an
 emetic and is often used to promote the action of
 other emetics. As a substance it has been given as
 a remedy in intermittent fever in a dose of $\frac{1}{2}$
 3 or 4 times a day. Externally the flowers stea-
 med in water are employed as a fomentation
 the extract which is intensely bitter, is a convenient
 vehicle for forming pills especially when it coin-
 cides in nature. With the rubiac. purgative in-
 duces that form. It is frequently given as a dia-
 phoretic in warm water. It is an ancient remedy
 in intermittent fever. Coenitury. Is much used as
 a tonic but in my opinion is far inferior to cham-
 omile. **lecture 37** *Cornus Florida* is one of our country
 productions. This is a very good tonic given in latitude of
 Dr. Miller with a valuable thesis on *Cornus florida* &
Cornus americana. The dose is the same as *Prunella* bark
 and is said to be equal to it but I say the bark is preferred to it
Cornus americana cannot be procured in such quantities, or *Cornus Florida*
 therefore is not used. *Eupatorium Perfoliatum*. This I have already told

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you has an emetic and diaphoretic property: it also acts as a tonic. I might mention many more but the course is so far advanced that time will not permit I must therefore refer you to Cullen and Murray's chemical studies. He mentions many but thinks them few inferior to those already enumerated. I now go on to speak of Mineral.

Sources. of Ferrum. Iron. Nearly like all other metals in its metallic state is inert but when it is finely powdered is useful as a vermifuge.

It acts mechanically. Chemistry with its industry with its industry has investigated its preparation.

Carbonate of Iron. when the metal is exposed to a humid atmosphere, where the metal attracts the Oxygen of the air, is oxidized and also combines with another portion of the air / carbonic acid which forms the salt. There are two carbonates / **Carbonas Ferri precipitatus** prepared by adding a solution of carbonate of soda to a solution of sulphate of Iron.

1490

washing and drying the precipitate
formed by the chemical decompo-
sition. But we shall consider the em-
bodate of Iron or Pulvis ferri which
is superior average dose 5 to 10 grs
It may be given in larger doses but
cut & useful small doses its virtue
is the same in small as in large
doses Physicians are fond of formu-
las. It is therefore frequently combined
with several bitters. and for the com-
bination I refer you to expe. dis-
persatory. I use it in the following
manner in combination with
bitters viz

I have sometimes added Rhubarb
and ginger is a very useful addi-
tion

Sulphate of Iron. Sal chartis.
(copperas) in large doses causes
vomiting & pain &c. I have no
hesitation to recommend it in
combination with pulvis ferri
chloridic acid added to Iron forms

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muriate of Iron. this is employed in =
 in the form of tincture. It is prepared
 by dissolving black oxide of Iron in
 muriatic acid and diluting the
 solution with alcohol Tinctura
 Ferri Muriati. is a very active
 preparation, some times too much so
 as to admit of its being used in a
 morbid state of the stomach.
 Its dose is 10 or 15 drops diluted
 with water or taken in wine the
 tonic quality of Iron has led to
 its use in Intermittent fever. par-
 ticularly in combination with Per.
 Bark. But in high excitement is
 prejudicial. In Chlorosis Gleet &c
 also much used in characters
 of children. the formula which
 I have already mentioned is very
 good in this disease (chlorosis)
 Dose proportionate to age. I have
 derived much benefit from this
 formula after purging the child
 several times. In Cancer Iron has
 been given and recommended by
 Dr. Charriehal this is vague
 it has no effect on cancer

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Dr. Barton supposed it to enter the blood but this Dr. Chapman opposes several graduates of this university also oppose it. Dr. Dorey rather inclines to Barton's opinion. Arumatics enter it in the stomach as orange pulp & Cuprum. copper. For its chemical preparations I refer you to the professor of chemistry. When copper is taken into the stomach which it sometimes is, it causes disagreeable symptoms. commonly you will find it evacuated in 48 hours. but when acridity exists in the stomach forms a neutral salt. as this some times causes bad symptoms, we should give no acid or astringent food. By doing this I have very seldom seen any bad effects result from it. but they have occurred. symptoms. ex. caused vomiting of blood convulsions syncope and death. I have seen a child which swallowed a piece of iron, and the iron passed off in a short time. I once saw the anus lacerated by a piece of bone accidentally swallowed which passed per ano. & ptyalism some times takes place when copper has been taken. Dr. Barton relates such a case.

the ammonuret of Copper (ammonium cupri. cuprum ammoniatum. It is prepared by titrating sulphate of copper and carbonate of ammonia

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1883.

together. and is either a ternary compound
of copper (oxide) ammonia and sulphuric
or a mixture of sulphate of ammonia
and the compound of ammonia with
oxide of copper. It has been much used
in epilepsy. in cases where it has been
employed no relief was obtained. I
never used it freely myself and never
saw it beneficial. Dose $\frac{1}{n}$ gr grad-
ually increased given 2 or 3 times per
day. Dr Russell gave 18 gr 3 times per
day. Dr Dick's recipe is as follows

Fluor. of Lime \mathfrak{zj}
Cupr. Ammoniacum \mathfrak{zj}
Water Bath 2S
Syrup - Q.S
Dose

Dose $\frac{1}{3}$ of a grain cuprum ammoniac.
trum. A large dose acts as a emetic.
therefore use it in small doses as a ter-
tic. In Chorea St Viti. It is used. I have
used it in one case without advantage.
Sulphate of copper has been recommended
in Intermittent fever. formula in which
it is given.

R. sulph copp. gr IV } Divided in 8 pills
capsicum \mathfrak{zj} } 1 pill three a day
I have used it in this formula. it pro-
duced nausea. Dr Clarke thought it
useful when it nauseates. it is used in
surgical cases. Dr Physick used it
in this formula in sore throat, &
I have used it myself and cured ma-
ny

1504y.

15951..

$\left. \begin{array}{l} \text{℞ Sulphate of copper } \mathfrak{z}\text{ij} \\ \text{Peru Bark} = \mathfrak{z}\text{ij} \\ \text{2 or 4 grains} \end{array} \right\} \text{ as a Gargle.}$

a solution is used as a collyrium in ophthalmia, when collyriums are useful or indicated. It has been used as a tonic. I have never seen it used as a tonic. It is used as an antispasmodic which has been already mentioned.

Argentum. Is considered a perfect metal. the only preparation we have of it is nitrate of silver. From of naming it

this is generally used as an escharotic was once used as a tonic in epilepsy and is again revived. Some use it in epilepsy but without any benefit. Dose $\frac{1}{8}$ of a grain in form of Pills you make a solution and mix it with currant of bread and make a crumb of it and form it into pills. In all your pharmaceutical preparations make it dose $\frac{1}{8}$ or $\frac{1}{4}$ of a grain. It has been given in larger doses. Nitrate of silver as an escharotic is much used it does not act intensely as an escharotic but also as a tonic and stimulant. Gold. I have very little to say of this metal Dr. has called the

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attention of Physicians. to one of its preparations he extols it in Syphilis &c and this is the Muriate of Gold. I have seen it tried and completely fail in this disease (syphilis) I would rather see a specific for cancer than the venereal disease as we have other cure for the latter disease which by proper use will cure Syphilis. ~~Li-Cum~~ Li-Cum. Li-Cum. In its metal state has no effect on the human body. An oxide of it has been used in epilepsy &c Sulphate of Lime flowers of Lime like blue vitriol has an excess of acid. Dr Bartsch has used it in Epilepsy. in pertussis is much used In Palpitation when it arises from Dyspepsia is useful. is given in so. Li-Cum in the following manner.

White vitriol when combined with Laudanum is much used as an injection in Gonorrhoea.
viz.

15781

(1509)

R white vitriol. grs 10 or 12.

in $\frac{1}{2}$ Pt of water

Laudanum is sometimes added

When irritation exists Hemorrhoids
morales and stricture are the conse-
quences when to string. It is not to be
used until the inflammatory action is
subdued. This is applicable to all
injections. Acetate of Zinc. This is for-
med by adding a solution of Sul-
phate of Zinc to a solution of Acetate
of Lead a precipitate is formed which
is acetate of Zinc. a double decom-
position takes place. The acetic acid
unites to the Zinc and the sul-
phuric acid of the Lead to the
Lead my formula as an injection
for Gonorrhoea is as follows

Acetate of Lead grs 10

Sulphate of Zinc grs 8

Aqua — of. Vij

This is to be used after the inflama-
tory action is subdued. Bismuth
the oxide of this metal is much used
in Dyspepsia. Dr. — found it high-
ly useful in Dyspepsia In this
City is not much used. I have used
it in one case with tolerable advantage
5 or 6 grs 2 or 3 times a day in syrup.

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Lecture 01th

This is another Semi-Metal Oxygen converts it into an acid when heated a garlic odour is very perceptible and this is important & elucidates jurisprudence. is soluble in water & changes vegetably blue it is easily converted into arsenious acid by adding a portion of Oxygen. but I shall retain the term white oxide of arsenic. It is obtained from different metallic Ores & cobalt nickel &c taste acid, odour strong ly soluble in water in small doses of a few grains. I have seen it kill all upon dissection the corrosive portion of the stomach was inflamed Dr Physick has found the stomach gangrenous. Symptoms nausea burning sensation & accelerated respiration convulsions & death is violent tremor to prevent its bad effects, oils & emetics may be used or Tar, emetic Sulp Liq. In France Sulphuret of potash is used as an antidote but this is too feeble Arsenic on

15121

Externally applied to ulcers has caused such symptoms. When nausea occurs, you must resist from its external application. The preparations of arsenic are several, I shall only mention a few. The Dose of arsenous Acid is $\frac{1}{16}$ of a gr. Fowler's solution is made in the following manner

Dose 10 or 15 drops 3 or 4 times a day. for an adult gradually increased to a child 3 years old 3 drops. 4 years 4, 5 years 5 &c. Darwin's preparation has no preference to Fowler's solution, and the latter is more used. This medicine has lately been much used in intermittent fever. I have used it freely when peruvian bark has failed. There are many cases in which one is preferable to the other. But remarks that arsenic is inadmissible

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In Typhoid cases of intermittent Fevers. It may be a dose only given in intermittency of chills when they will take Fowler's solution but the bark cannot be retained. When the pulse is active and irregular I have found the arsenic useful. It does not stimulate and does not cause head ache. It puts a period to intermittent fever in a short time. Peruvian bark cannot be given in the hot stage but Fowler's solution can. I have no doubt when it is given in large doses it may do harm in the hot stage. Dropsical swelling will result from its long continued use but this is rare. It is a tonic and there is no proof that it does no twice as fast that it is a tonic than even be no doubt a great many prejudices exist against its use. And it is then for some times necessary to conceal the name of it in our administration, and I am sorry that this prejudice has extended to Physicians. In Periodical head ache it is useful as well as biliousness. In Rheumatism Dr. Barton has long

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been in the habit of using it as a re-
 medy as it highly. In Hemorrhage it
 has been used but but I think it not
 adapted to this disease. In Chorea &
 Rheumatism it is used but I think
 without advantage. I scrupulously it is used
 as you have already been told by the
 Professor of Surgery. In Eruptions
 resembling venereal eruptions is thought
 serviceable. In cancer it is used
 both externally and internally.
 It is a constituent of several medicines
 for this terrible complaint, but I
 think it not possessed of so great a
 economy bestowed upon it in this
 disease. I advise you to read Sir Ben-
 edict Home on the subject before
 you use it. In cancer of the Uterus
 I have used it in vain. I might
 mention many more cases in which
 it has been tried but our time will
 not permit. I proceed to speak of
 Sulphuric Acid. This is a valuable
 tonic mild in its operation, may be
 taken in water (which is its proper vehicle)
 about 20 or 30 drops to 1 pt water. ^{elixer} of vitriol
 is made in the following manner

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This is generally made in this manner

This is prepared to the acid as it is more agreeable. If you use the sulphuric acid if it be very strong 2 or 3 drops will be sufficient to 1 pint water. This acid is used in many cases of delicacy. It is said to restrain diaphoresis. In Epilepsy it is used but without advantage. An Ointment is made of it which is much used for Psora. This is made as follows

Sitric Acid. To make a pint of emulsion
Lage of Citric acid 3i
Solu. of G. anal — 3vi always
make it secundum artem i.e. pour
Citric acid on the emulsion &



is it in the G. Arealis. Is used in jaundice.
Hepatitis &c in the west indies. is used
as a tree in some cases of venereal
It was used and highly extolled in
syphilis Dr Smith (a graduate of
this college) of Charleston S. C. made
it the subject of his inaugural essay
who made a number of experi-
ments, vide his thesis. he places it
on the same footing as mercury in
syphilis. but this is certainly erro-
neous. It is now found to be inefficacious
in syphilis in which case it has been
so highly recommended. Muratic
acid. Has properties analogous to ni-
tric acid. & used in the same diseases
as jaundice &c in which the latter is
used we pass on to speak of astringents
in the language of Cullen. Astringents
are those medicines which when
applied to the human body produce
a contraction and condensation of the
soft solids & thereby increase their den-
sity & force of cohesion. If they are ap-
plied to longitudinal fibres the con-
traction is made in length, but if
applied to circular fibres they diminish
the diameter of the vessels which
the fibres surround. Dr Cullen exempli-
fies the action of astringents to the tanning
of leather it must however be evident that the

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An analogy between living and dead is
different. Astringents do not chemically
act on living matter by making
an impression on the stomach. We
check hemorrhage of different parts
of the system we have abundant
proofs that they have an effect of
putting a stop to hemorrhage in
distinct parts as the uterine lungs
nose intestines &c. Iacch Saturni
has this power in a short time they
cannot be absorbed for such a mass
quantity as a cate of lead tak
into the circulation could not have
this effect in so short a period. This must
be evident to all medical men
Astringents are stimulants and tonics
they are used in intermittent fever
Some writers have denied the exis-
tence of astringents they say astring-
ents are tonics if these few lines
will give proof that tonics will
suppress hemorrhages then we will
place them on all the class tonics
but this is not the case tonics in-
stead of suppressing hemorrhage in-
will increase the discharge of blood
by increasing the vascular system.

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[A line of more legible handwriting, possibly a signature or a specific entry]

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Tannin Principle. The use of this
principle is gelatine. (from leather)
this principle is often united to
bitterness In the Logwood the as-
tringent principle is united to
the Logwood (saccharine) I shall
next speak of the individual os-
trigents. all ostrigents are bitter

Lecture 5th

I shall follow⁴ the course of my prede-
cessors in commencing to speak of
the individual articles.

Extract of Catechu. this is obtained
from a plant a species of *catechu*
clumosa. The extract is obtained
by boiling and evaporating
It is a Gum Resin. leaves a os tri-
gent taste in the mouth. It stains
a black colour with the salts of
iron. containing an earthy substance
I am in the habit of using it in ulcers
(or ulcers ulcers of ^{8th}) of its natural
administration I have not much ex-
perience. Dr Baile used it in inter-
mittent fever in combination with
Colombo dose 15 or 20 grs rubbed up with
syrup. in England is much used in —

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209

1111

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Spongy gums, analogous to it, but we have KINO. Dr Fothergill speaks of it as a new gum. It is said to issue from other.

The true Kino is generally retained for Murray's work of P. R. Lough who work probably is in the hands of you all. speaks of it (vide) Kino of N. Holland. is similar to that from Africa the analysis of Kino is not different from catechu. Dose 1 or 2 to 3 Macks in the course of the day. suspend it in mucilaginous mixtures. It also give in tincture in. In tincture Dr Barts used it with success where peruvian bark &c failed. It is also given in acetum hemorrhages. In Gonorrhoea is given in injection that it is generally given in too large doses. Dr Lianthos is generally in this city and I use it in the following prescription.

R	creta Reparata	—	℥ss	} cinnamon a small quantity. Rubis Galia of i big as to 1/2. a little spoonful every 2 hours.
	Tin e Kino	—	℥ss	
	Alum. Muroo militica	—	℥VI.	
	Laudanum	—	gutts. T. X. 160	

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In Dysuria Dr. used it and
speaks highly of it. In Diabates he
also gave it in combination with Op.

Kino 5 grs.

Opium $\frac{1}{2}$ gr.

Quercus. the species of Oak are num-
merous the bark of all of them is as-
tringent the black Oak is said to
have the least astringent power. Some
3℥ to ʒi. the Oak bark is used in cy-
nanche as a gargle. In Tetth. c.
strong decoction is very beneficial.

Galls. an excrescence of oak and is
said to be caused by a deposition
of an insects egg of the cynipis kind
the heavier they are the better. Aleppo
kind are the best. an infusion changes
vegetably blue, to a red. being to
the gallic acid. Is used in all cases
in which the Peruvian bark is used
in intermittent fever I never used it -
always used other remedies. In Dys-
enteria is used I give it in the follow-
ing manner that is other astringent are
indicated. R Pulv Galla - ʒi

a little cinnamon boiled in ʒss
if tending to ʒss. In Diarrhoea of anus
a chronic form, this is a valuable remedy.

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In Hemorrhoidal affecting is general-
ly made into an ointment which is
a popular remedy. It also used in
Prolapsus Ani. In Gleet is also
Lignum Campechianse. Logwood.
this is much used in Dysentery
(particularly of children)

Geranium Maculatum. grows
throughout the U. S. used in lower
complaints cholera and Dysentery
it is generally given in Decoction
with milk.

Black Alder. The bark is said by
Dr. Haig to be useful in gangrene
may be tried in intermittent fever
In Herpetic eruptions

Sewberry Root. this is an article
much used by Dr. Chapman as every
part of the plant is active in giving
in the following manner in cholera is -
fennel. 3i of minced root to 1 lb water dose
a table spoon full. In Dysentery & Diarrhoea
is also used. Is an astringent but I think it not
so powerful

1811

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Uva Ursi

We go on to speak of Mineral asti-
gents. Iron. in a metallic state or Scale
remains is void of ~~a~~ - astingent power.
a proof of its astingency is evident in
its retaining several evacuating
but this might be owing to its tonic
power. I find it difficult to say
how it operates probably meets with
some acid in the alimentary canal
when it checks Leucorrhoea it may
be considered as a - astingent.
Copper. several of its preparations
are used as a collyrium. As blue
vitriol this latter preparation is much
used, as a collyrium in Ophthalmia.
Silver. I do not know that any of
its preparations have any astingent
power. Lin cum. Zinc is much used

1851

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As an astringent (in preparation) as
collyrium. Plumbum. Lead in
the metallic state is not used as
a medicine. Its preparations are
extensively employed. Use of
Lead. This is frequently employed
as an astringent in many cases.

External application is often used
as a lead water-poultice - as a col-
lyrium Internally. It is much
used. Persons employed in manufac-
turing of this metal are sallow & pale
and are subject to a disease called col-
ica Pictorum. In lead eating painting
are affected with a similar disease.
Painters glazing and Printers stone cutters &
apothecaries &c are frequently affected with
this disease owing to their working with it
For then it is not hard to be convinced
that colica Pictorum cannot be caused
without lead being its remote cause.

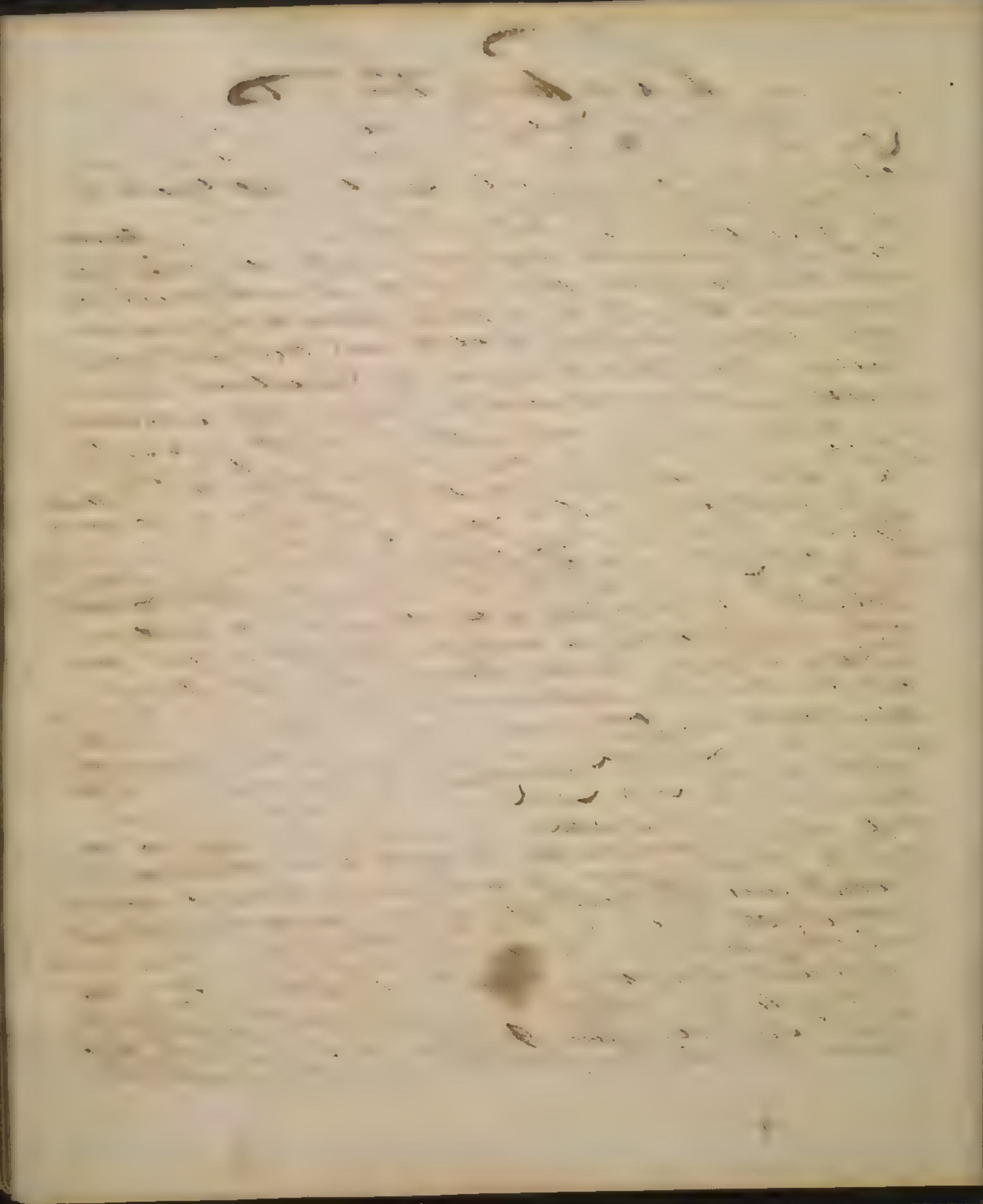
Copper Antimony &c sometimes the remote
cause when taken in large quantities
into the stomach produces serious con-
sequences happily that exsaccharation
ing &c come on and the stomach is
it probably the best method of preventing
or lessening the effects is to give an emetic
evacuate the bowels with a cathartic. It is
very much used

[The text on this page is extremely faint and illegible due to fading and bleed-through from the reverse side. It appears to be a continuous block of handwritten text.]

[The text on the right edge of the page is also illegible due to fading and bleed-through. It appears to be a continuation of the handwritten text from the reverse side.]

Lecture 62

The primary effect of Lead on the system is said to be stimulant. Dr. Land who made experiments on the ^{of Mary-} with lead, and he found it increased it consequently it is a stimulant. Dose common dose is from 2 to 5 grs but the dose has been increased to 3j without inconvenience. Dr. Bantley gave the medicine in obstinate intermittents with success in cases where peruvian bark arsenic &c failed in those cases in which I used it, it had no effect. I do not think much of it in intermittents. In Epilepsy it has long been used. it is said to be Beneficial especially in young people. It must be continued long, whether it is useful I cannot say. I never used it. In Pertussis it has been used in Europe but it does no good. Has been recommended in Tetanus must not act by inducing a new disease. Opium & the diffusible stimulants are the best remedies in this disease. In Cholera it has again & again been used, but without success. The same remark is applicable to cholera cholica. In Bowel Complaints. It is used as a counteragent & sedative. In inflamed parts externally it is found of great service. but it is not ascertained, whether it will act in this manner on the inflamed surface of the stomach & intestines. in those cases in which I have seen it used with this intention no good resulted.



As it will cause a disease called Colica Pic-
num I think it injurious. Sugar of Lead is
directly a sedative Dr. Barton tried it in cholera
Mortis but never continued the practice & Len-
corrhoea & gonorrhoea - form of injection
In Hemorrhages. It has been said by Dr. Helme
to be a specific but this is not the fact
applied directly to the open mouth, if the
self, & internally in those hemorrhages, when
the pulse continues active not withstanding
letting. It is & has been given in Epertaxis hemor-
rhages, Hematemesis, & hemorrhage of other parts
as uterine hemorrhage &c with good effect. The
dose is about 5 grains, at short intervals the dose
has been increased to 8 or 10 grs. Dr. Barton recom-
mended 1/2 gr of Opb. to be combined with it also
Ipecacuanha. An unguentum is made of Ac-
tate of Lead which is much used. White Lead
Cerussa sub acetate of Lead. is made into an
ointment which relieves Pain & inflammation
I have seen it used in burns (where Dr. Kentish ap-
plication was inefficient) with success. It is made
as follows.

Cerussa.
Liquia Candamum
Boys Lead
Bees wax

In hemorrhoids this ointment is much used
and I have used it with great success. Sulphur
aluminis. The astringency is manifest by taste
Dr. Cullen used it in intermittent fever. But remarked
that it was too irritating & laid it aside. Dr.
Damon thought it well adapted to bowel com-
plaints. In cholera Mortis it is combined
with Camomile. In hemorrhages is much
used Dr. Thomson gave it in large doses.

[Faint, illegible handwritten text, possibly bleed-through from the reverse side of the page.]

In leucorrhoea used, found as useful as trivalent iron
 Gommorrhoea. as a collyrium is often used you will
 find a prescription in the elements of surgery burnt
 alum. I have already mentioned it in the speak-
 ing of leucorrhoea. Creta preparata. carbonate
 of lime. pure lime is used as an astringent. the
 cretaceous mixture is much used in local co-
 plaints & is useful in diarrhoea it contains it
 In dysentery we use the medicine but not before
 the bile is evacuated then it is beneficial

the formula. \mathcal{R} Prepared chalk $\frac{3}{4}$ ss } to be given
 this is made into Opium ————— $\frac{1}{4}$ ss } on every
 8 pounds and one 9 pounds. ————— $\frac{1}{4}$ ss } 3 or 4 times
 a child from 5 to 6 years - in the quantity
 chalk & sulph. is made as follows

Mixture of Lime & Barytes. In scrophula
 & many other diseases is much used. all
 the experience I have had leads me to
 say that we have no other means for the
 dreadful disease, which invades our com-
 munity. happy citizens happy would it be for the
 medical art to have a specific for
 this disease (scrophula &c.)
 Valdictory address.

Frais

1871

1872

1873

1874

1875





